CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 19, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(** denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
8-21	Repairing bldg., Washington, D. C. (S.)	7-29
8-28	Store houses, Portsmouth, N. H. (S.)	7-29
8-28	Power bldg., Vallejo, Cal. (S.)	7-29
8-28	Dredging, slip, Boston, Mass. (S.)	8- 5
8-28	Rifle butts, etc., Phila, Pa. (S.)	8- 5
8-28	Barracks, Hingham, Mass. (S.)	8- 5
8-30*	Seawall, Galveston, Tex. (S.)	8- 5
9- 1*	Elec. plant, Monett, Mo. (S.)	8- 5
9- 1*	Park system, Minneapolis, Minn. (S.)	7- 8
9- 1*	Tunnel, Chicago, Ill. (P. & S.)	8- 5
9- 3*	Lighthouse, Tompkinsville, N. Y. (P. & S.)	8-12
9- 8	Memorial monument, Vicksburg, Miss. (S.)	8-19
9-11	Power station, Mare Island, Cal. (S.)	8-19
9-14*	Pumping engines, Detroit, Mich. (P. & S.)	7-15
9-18	Hospital buildings, Washington, D. C. (S.)	8-19

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

8-20 Cable, Boston, Mass............. 7-29
8-23 Boilers, etc., Columbia City, Ind. 8- 5
8-24 Heating, electricity, N. Chicago, Ill 8-19
8-26 Fixtures, New York 8-19
8-28 Elec. light plant, Fayette, Ohio.. 8- 5
8-28 Power bldg., Vallejo, Cal........ 7-29
9- 1*Elec. plant, Monett, Mo......... 8- 5
9- 9 Power plant, Columbus, Ohio.... 8-19
9-11 Power station, Mare Island, Cal.. 8-19
10-14*Elec. motors, Toronto, Ont...... 8-19

BRIDGES.

8-20 Bridge, Mount Gilead, Ohio...... 8- 5
8-20 Bridge, Columbus, Ga............ 8- 5
8-20 Bridges, Mitchell, S. Dak........ 8- 5
8-20 Bridges, Topeka, Kan............ 8-19
8-20 Bridges, Butler, Pa............. 8-19
8-21 Bridge, Louisa, Ky.............. 8-12
8-23 Replacing bridge, Carlisle, Pa.... 8-12
8-23 Bridge, Dedham, Mass........... 8-12
8-23 Bridges, Eden, Minn............. 8-19
8-23 Bridges, Portsmouth, Ohio....... 8-19
8-24*Bridge, Philadelphia, Pa 8-12
8-24 Bridges, Bismarck, N. Dak....... 8-12
8-25 Bridge, Pomfret, N. Y........... 8-12
8-25*Bridge work, Chicago, Ill........ 7-29
8-25 Bridges, Sleepy Eye, Minn....... 8-19
8-25 Bridges, Greencastle, Ind........ 8-19
8-25 Culverts, Fort Wayne, Ind....... 8-19
8-27 Bridge, etc., Peru, Ind.......... 8-19
8-28 Bridges, Salem, Ind............. 8-19
8-28 Bridge, Lewiston, Pa............ 8-19
8-28*Steel or concrete bridge, Sebec, Me. 7-15
8-30 Bridge, Bowling Green, Ohio 8-12
8-30 Bridge, Mount Vernon, Ohio..... 8-12
8-30 Bridge repair, Alameda, Cal..... 8-19
8-31 Bridge, Atlanta, Va 8-12
9- 1 Bridges, Philadelphia, Pa........ 8-19
9- 3 Bridge, Sandusky, Ohio.......... 8-19
9- 6 Culverts, Shelbyville, Ind........ 8-19
9- 6 Bridge, Greenwood, Miss......... 8-19
9- 6 Bridge, Wytheville, Va........... 8-19
9- 7 Bridges, Clear Lake, Iowa....... 8-19
9- 7 Bridge, Brazil, Ind.............. 8-19
9- 7 Bridge, Fostoria, Ohio........... 8-19
9-7*Bridge designs, etc., Phoenix, Ariz. 8-12
9- 8 Bridge, Pala, Cal. 8-19
9-14 Trestle, Springston, Idaho....... 8-19
9-21*Steel bridge, Merced, Cal....... 7-29

BUILDINGS.

8-20 Courthouse, Chehalis, Wash...... 8-12
8-20 Barracks, etc., Charleston, S. C.. 7-29
8-21 Repairing bldg., Wash., D. C.... 7-29
8-23 Plans, Reno, Nev................ 8- 5
8-24*Heating, Ft. Warren, Mass....... 7-29
8-24 Hospital annex, New York....... 8-12
8-24 Building addition, etc., New York. 8-19
8-26 Alterations, New York.......... 8-19
8-26*Quarters, New York, N. Y....... 7-29
8-26 Post-office, Laredo, Tex......... 8- 5
8-28 Barracks, Hingham, Mass........ 8- 5
8-28 Storage houses, Portsmouth, N. H 7-29
8-30 Post-office, Paris, Ky........... 7-29
8-31*Post-office, New Orleans, La..... 7-29
8-31 Capitol, Madison, Wis........... 8- 5
8-31 Heating plant, Indianapolis, Ind. 8-19
9- 1 Plant equipment, Rogers, Ark. (Mfg. Pl.) 8-19
9- 2 Post-office, Manhattan, Kan 8-12
9- 6 Court-house, Jasper, Ind......... 7-29
9- 7 Mech. equip., New Orleans, La.. 8- 5
9- 8 Air exhausting system, Grand Rapids, Mich 8-19
9- 9*Post-office, Saratoga Springs, N. Y 8- 5
9-14 Building, Hartford, Conn........ 8-19
9-14 Building, Fort Wayne, Ind....... 8-19
9-14*Heat and power plant, Supply, Okla 8-19
9-15*Science hall, Washington, D. C.. 8-19
9-16 Post-office, San Angelo, Tex...... 8-12
9-18 Hospitals, Chelsea, Mass........ 8- 5
9-18 Hospital buildings, Wash., D. C. 8-19
9-20*Post-office, etc., Richmond, Va.. 8-19

WATER-WORKS.

8-20 Water-works Impt., Mexico, Mo.. 8-12
8-20 Standpipe, Gardner, Mass....... 8-12
8-20 Wells, pumps, Wilmington, N. C. 8-19
8-20 Test borings, Milwaukee, Wis.... 8-19
8-20 Water-works, etc., Hydro, Okla.. 8-19
8-21 Water tank, Antioch, Ill......... 8-19
8-21*Water mains, Hadley, Mass...... 8-12
8-23 Tower and tank, Greenfield, Iowa. 8-12
8-23 Well, Pierre, S. Dak............ 8- 5
8-23*Laying water pipe, Framingham, Mass 8-19
8-23 W.-wks improvements, Columbia City, Ind 8-19
8-23 Water-works, Shirley, Ind........ 8-19
8-23 Water mains, Clarksville, Iowa.. 8-19
8-23 Well drills, Panama 8-19
8-24 Water pipe, etc., Michigan City, Ind 8-19
8-24 Dam, etc., Greenwich, Conn..... 8-19
8-26 Concrete dam, Lancaster, Pa..... 8-19
8-27 Water-works, etc., Tyler, Minn.. 8-19
8-30*Well, Fort Morgan, Ala.......... 8- 5
8-30*Water extension, Fort H. G. Wright, N. Y. 8-12
8-30*Reservoir addition, Monticello, Ia. 8-19
8-31 Water system, Seattle, Wash..... 8-19
9- 1*Engine, Perth Amboy, N. J...... 8-12
9- 2 Water mains, Bloomington, Ill... 8-19
9- 2 Water mains, Brooklyn Heights, Ohio 8-19
9- 6 Water-works, Smithfield, N. C... 8- 5
9- 6*Water main, Vicksburg, Miss.... 7-29
9- 7 Water-works, Hot Sulphur Springs, Colo 8-19
9- 9*Water-works, Henryetta, Okla... 8-19
9-13 Water-works, Hartshorne, Okla. 8-19
9-14 Aqueduct, Montreal, Que........ 8-19
9-14 Pumping engines, Detroit, Mich. 7-15
10-14*Turbine pumps, Toronto, Ont.... 8-19

SEWERS.

8-19 Sewers, Cleveland, Ohio........ 8-19
8-20 Sewers, Augusta, Me............ 8-19
8-20 Sewers, Grand Rapids, Wis...... 8-19
8-20 Sewer system, Newkirk, Okla ... 8-12
8-20*Sewer, Louisville, Ky 8-12
8-20 Vitrified pipe, Beloit, Wis....... 8-12
8-21 Sewer, Fort Atkinson, Wis....... 8- 5
8-21 Sewers, Xenia, Ohio 8- 5
8-23 Sewer connections, Willoughby, O. 8-12
8-23 Sewers, Norwood, Ohio.......... 8-19
8-23 Sewer pipe, Washington, D. C... 8-19
8-24*Sewers, Marion, Kan............ 8-19
8-24 Sewer, Taylor, Pa 8-19
8-24 Sewers, East Cleveland, Ohio.... 8-19
8-24 Rebuilding sewer, New York..... 8-19
8-24*Sewers, Belmar, N. J........... 7-29
8-25 Sewer, Wilkes-Barre, Pa 8-19
8-25 Sewer, Oakland, Cal............ 8-19
8-26 Sewers, Cleveland, Ohio......... 8-19
8-26 Sewer, Gainesville, Fla 8-12
8-26 C.-I. heads, New York.......... 8-12
8-27*Sewer, Bordentown, N. J........ 8-12
8-27 Sewer, Louisville, Ky........... 8-19
8-30 Sewers, Norfolk, Neb........... 8-19
8-30 Sewers, Wash., D. C............ 8-19
8-30*Sewer, Westfield, N. J.......... 8-12
9- 1*Sewers, etc., Baltimore, Md..... 8-12
9- 1 Sewer, etc., West Pownal, Me... 8-12
9- 1 Sewers, Rogers, Ark............ 7-29
9- 1 Sewer system, Portage, Wis..... 8-19
9- 6*Sewer, Vicksburg, Miss......... 7-29

STREETS AND ROADS.

8-20*Grading, etc., Fort Plain, N. Y.. 8-12
8-20 Macadam, Janesville, Wis....... 7-29
8-20 Macadamizing, St. Clairsville, Ohio 8-19
8-21 Grading, Cumberland, Md....... 8-19
8-21*Driveways, Madison Barracks, N.Y 7-29
8-21 Paving, Bellefontaine, Ohio...... 8- 5
8-23 Road, Staunton, Va............. 8- 5
8-23 Grading, etc., Ashland, Ohio..... 8- 5
8-23*Paving, Red Bank, N. J......... 8-12
8-23 Regulating, etc., New York...... 8-12
8-23*Grading, etc., Ridgefield Park, N. J. 8-12
8-23 Road work, Hartford, Conn...... 8-19
8-23 Grading, etc., Huntington, W. Va. 8-19
8-23 Grading, etc., Columbus, Ohio.... 8-19
8-24 Road, Marion, Ind.............. 8-19
8-24 Paving, etc., New York......... 8-19
8-24 Road, Wilmington, Del.......... 8-19
8-24 Grading, etc., Toledo, Ohio...... 8-12
8-25 Grading, etc., Columbus, Ohio.. 8-19
8-25 Street impvt., Hoboken, N. J.... 8-19
8-26 Grading, Carrollton, Ohio........ 8-19
8-26 Pavement, New York 8-19
8-26 Paving, Middlebourne, W. Va... 8-19
8-26 Grading, etc., Steubenville, Ohio. 8-12
8-27*Highway repair, Albany, N. Y.. 8-12
8-27 Pike impvt., Cincinnati, Ohio.... 8-19
8-28 Road repair, Cleveland, Ohio.... 8-19
8-28*Sidewalks, Wash., D. C......... 8-19
8-28*Paving block, etc., Norfolk, Va.. 8- 5
8-30 Sidewalks, Fort Howard, Md.... 8- 5
8-30 Road, Rushville, Ind............ 7-29
8-31 Driveway, Tacoma, D. C......... 8-19
9- 1 Paving, El Reno, Okla.......... 8-12
9- 1 Grading, etc., Hartford City, Ind. 8-19
9- 1 Roadway repair, Brooklyn, N. Y.. 8-19
9- 2 Grading, etc., Akron, Ohio...... 8-19
9- 2 Resurfacing, New York.......... 8-19
9- 4 Macadam, Columbus, Ohio....... 8-19
9- 6 Roads, Knox, Ind............... 8-19
9- 6 Road, Tipton, Ind.............. 8- 19
9- 6 Road, Delphi, Ind.............. 8-19
9- 6 Road, Greencastle, Ind.......... 8-19
9- 6 Road, Vernon, Ind.............. 8-19
9- 6 Road, Shelbyville, Ind.......... 7-29
9- 6*Paving, Vicksburg, Miss........ 7-29
9- 7 Roads, Fowler, Ind............. 8-19
9- 7*Street impvt., Westfield, N. J.... 8-19
9- 7 Grading, St. Paul, Minn......... 8-19
9- 7 Road, Vincennes, Ind........... 8-19
9- 7 Road, Williamsport, Ind......... 8-19
9- 8*Grading, etc., Griffin, Ga........ 8-12

MISCELLANEOUS.

8-20 Cable, Boston, Mass............. 8-12
8-20 Cross ties, Panama 8-19
8-21 Earth filling, Ft. Slocum, N. Y... 8- 5
8-21 Ditch, Marion, Ind.............. 8-19
8-23 Dredging, San Francisco, Cal.... 8-12
8-24*Dam, Greenwich, Conn.......... 8-19
8-25*Dredging, Chicago, Ill........... 8-12
8-25*Creek impvt., Syracuse, N. Y.... 8- 5
8-25*Retaining wall, Bay City, Mich.. 8- 5
8-25 Repairing scows, New York...... 8-19
8-26 Vacuum system, Portland, Me.... 8-19
8-26 Iron fence, New York........... 8-19
8-27*Vacuum system, Houston, Tex... 8- 5
8-27 Fire engine, Duluth, Minn....... 8-12
8-28 Dredging, slip, Boston, Mass.... 8- 5
8-28 Rifle butts, etc., Phila, Pa....... 8- 5
8-28*Dredging, New York 7-29
8-28*Dredging, Champaign, Ill........ 8-19
8-30*Steel fences, Cheyenne, Wyo..... 8-19
8-30*Seawall, Galveston, Tex......... 8- 5
8-30 Levee, New Orleans, La......... 8-12
8-30*Storehouse, Wash., D. C......... 8-12
8-30 Drainage, Arcadia, Tex.......... 8-12
8-31 Refrigerators, Chicago, Ill...... 8-19
8-31*Rifle range, Albany, N. Y....... 8-19
9- 1 Levee, West Memphis, Ark...... 8-19
9- 1 Ditch, Harrisburg, Ark.......... 8-19
9- 1*Tunnel, Chicago, Ill............ 8- 5
9- 1*Park system, Minneapolis, Minn. 7- 8
9- 3*Light-house, Tompkinsville, N. Y. 8-12
9- 4 Dredging, Tiburon, Cal.......... 8-12
9- 6 Ry., Esquimalt & Nanaimo Ry.. 8-12
9- 7 Supplies, Panama 8-19
9- 9 Supplies, Panama 8-19
9- 8 Memorial monument, Vicksburg, Miss 8-19
9- 9 River work, New Orleans, La.... 8-19
9- 9 Pile driver, Burrwood, La....... 8-19
9-10*Seawall, Ft. McRee, Fla........ 8-19
9-10*Excavation, etc., Fort Totten, N. Y. 8-19
9-14*Dredging, Raritan, N. J......... 8-19
9-15*Creosoted material, Galveston, Tex 8-19
9-15*Air compressor, Pittsburg, Pa.... 8-19
9-15*Breakwater, Newport, R I....... 8-19
9-28 Vacuum system, Pierre, S. Dak. 7-15
10- 6*Steel barges, Vicksburg, Miss... 8-19

EXAMINATIONS.

8-24 Engineers, Chicago, Ill.......... 8-12
8-25 Asst. Inspector, Wash., D. C.... 8-12
9-15 Laboratory Asst., Wash., D. C... 8-19
9-15 Asst. in Agriculture, Wash., D. C. 8-19
9-29 Electrical Asst., Wash., D. C..... 8-19
9-29 Engr. of tests, Wash., D. C...... 8-19

RAILWAYS.

(** denotes that this work is advertised in Engineering News.*)

BALTIMORE & OHIO.—Company has awarded contracts during last week as follows: 1,000 composite gondola cars, 1,000 coke cars of 100,000 pounds capacity and 600 all steel hopper cars of like capacity, to the STANDARD STEEL CAR CO., Butler, Pa.; 1,000 all steel coke cars, 100,000 capacity, CAMBRIA STEEL CO., Johnstown, Pa.; 450 passenger coaches and five combined passenger and baggage cars, AMERICAN CAR & FOUNDRY CO., Wilmington, Del.; ten baggage cars, five cafe and parlor cars, five all steel postal cars, BARNEY & SMITH CAR CO., Dayton, Ohio. All this equipment is of the highest modern standard, all steel or steel underframe, the all steel construction being adopted in every practicable manner. In addition to the contracts enumerated, others for 1,000 box cars, 500 refrigerator cars and 500 ventilated cars, 50 locomotives and two electric locomotives will be placed upon the completion of the negotiations now pending.

The Baltimore & Ohio Co. has also placed orders for steel rails 90 and 100 pounds weight, as follows: 2,000 tons, BETHLEHEM STEEL CO., Bethlehem, Pa.; 3,000 tons, ILLINOIS STEEL CO., Gary, Ind.; 12,000 tons Bessemer steel, CARNEGIE STEEL CO., Pittsburg; 10,200 tons, MARYLAND STEEL CO., Baltimore, Md. Estimated cost of these contracts is between $6,000,000 and $7,000,000; with those pending, the total will exceed $10,000,000.

CHICAGO, BURLINGTON & QUINCY.—Contract has been given to GIBBONS & KEEFE, of Salt Lake City, Utah, for building about a mile of roadbed through the canyon of the Big Horn, including a long tunnel on the extension under construction from Kirby, Wyo., south to Shoshoni.

COPPER RIVER & NORTHWESTERN.—Construction work is being actively carried on along this line, from Cordova north to Bonanza, about 16 miles. The principal work carried out this summer was the erection of steel bridges replacing temporary pile structures. A steel span of 560 ft. has been put in place and another to be put up will be about 760 ft. long. A cantilever bridge 1,800 ft. long is to be built over the channel of the Copper River between Miles and Childs glaciers, to cost about $1,000,000. A mortgage securing $50,000,000 50-year 5% bonds has been made to carry on the work. The line is now running from Cordova, Alaska, inland about 53 miles. M. J. HENEY, 514 Coleman Bldg., Seattle, Wash., is building the line, as previously noted. Estimated cost of line, $20,000,000.

FARMERS' RAILWAY & NAVIGATION CO.—Incorporated in Oregon to construct a railroad with electricity, gasoline or steam as motive power, to connect Umatilla, Holdman, Helix, Hermiston, Echo and Pendleton. Headquarters, Pendleton, Ore. Capital stock authorized, $250,000; issued, $125,000. Officers: Chas. A. Hill, Pendleton, Ore., is Pres.; A. A. Cole, Pendleton, Secy.-Treas. and Purchasing Agent; E. T. Erickson, Hermiston, is Ch. Engr.

FORT SMITH, ST. LOUIS & CHICAGO.—Incorporated in Arkansas with $2,500,000 to build from Harrison, Ark., in Boone County, southwest via Jasper, Parthenon, Catalpa, Oark and Yale to Mulberry, about 98 miles, with an extension at a later date, from Mulberry to Fort Smith. Senator S. Roland, of Harrison, is Attorney for the company. The incorporators are Harold H. Tittman, St. Louis; L. S. Powers, John A. Bunch, John P. Crumpler, J. B. Parker, C. M. Greene, Leonidas Kirby, R. M. Fellows, C. L. Glines and W. D. Glines, all of Harrison, Ark.

FRANKLIN & ABBEVILLE.—Bids are under consideration for building an extension to be known as the Youngsville-Vermillion River branch. W. Y. Kemper, Franklin, La., is Ch. Engr.

HARRISON MINERAL BELT RY.—Company has been granted authority in Arkansas to amend its charter so as to enable the company to extend its road to Pontiac in a northeasterly direction, a distance of 42 miles from Harrison. The original charter provided for the construction of a road from a connection with the White River branch of the Iron Mountain in a southerly direction, a distance of eight miles, to Harrison. Noted fully on April 15.

KANSAS CITY SOUTHERN.—Six changes of line are proposed between Stilwell, Okla., and Neame, La.; the different sections of work ranging from three to eight miles in length, making a total of 27 miles. W. D. Hodge, Mena, Ark., is Engr.-in-Charge.

MEMPHIS, PARIS & GULF.—Two preliminary surveys have been ordered for the extension of the road from Ashdown west. One of the routes to be gone over is by way of Richmond, Ark., and Clarksville, Tex., to Greenville, and the other by way of Richmond to Paris, Tex. Surveys for the eastern extension of the road were completed some time since, the routes being from Murfreesboro via Amity to Hot Springs, Murfreesboro via Glenwood to Hot Springs and Murfreesboro via Graysonia and Arkadelphia to Pine Bluff. C. C. Henderson is Gen. Mgr., and H. C. McCluer is Ch. Engr., at Nashville, Ark.

MIDLAND VALLEY.—Surveys are completed for a branch from a point east of Muskogee, Okla., south to Honey Grove, Fannin County, Tex., and also via Ambrose, Tex., to Sherman.

MILWAUKEE, SPARTA & NORTHWESTERN.—This company has been incorporated in Illinois, with $25,000 capital, to build 53 miles of line through Milwaukee, Waukesha and Dodge Counties, Wis., from a connection with the Chicago & Northwestern Ry., near Lindwerm, west, thence north to Clyman, also from the same road near West Allis northwest to Clyman. The incorporators include M. Hughitt and J. M. Whitman, of Chicago; W. A. Gardner, R. H. Aishton and M. M. Kirkman, of Evanston, Ill.; J. F. Cleveland and W. H. Stennett, of Oak Park, Ill.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—It is announced that work will be begun at once on shortening this company's line in Minneapolis. The company expects to spend $500,000 this year and an additional $500,000 at a later date. Thos. Green is Ch. Engr., Minneapolis, Minn.

MISSOURI PACIFIC.—Stockholders have voted to consolidate the various companies forming the Missouri Pacific System, exclusive of the St. Louis, Iron Mountain & Southern. The lines absorbed were the Kansas & Colorado Pacific of Kansas, the Central Branch Railway Co. of Kansas, the Rocks County Railway Co. of Kansas, the Nevada & Minden Railway Co. of Missouri, the Nevada & Minden Railway Co. of Kansas, the Kansas City & Southwestern Railway Co. of Kansas, the Kansas City & Southwestern Railway Co. of Missouri, the Fort Scott Central Railway Co. of Kansas, the Kansas Southwestern Railway of Kansas and the Leroy & Caney Valley Air Line Railroad Co. of Kansas. All these lines have for years been, to all intents and purposes, a part of the Missouri Pacific System.

MOUNTAIN VALLEY & PLAINS.—It is expected that construction will be started at Cimarron, N. Mex., on Oct. 1; at Dalhart, Tex., Oct. 15, and at Guthrie, Okla., Nov. 1. This company was organized to

build about 195 miles of line from Higgins, Tex., east to Guthrie, with an extension from Higgins west to coal and timber lands at Cimarron, N. Mex. C. M. Cogan, of Canton, Ohio, and D. W. Herrington, of Dalhart, are interested.

NATIONAL RYS. OF MEXICO.—Bids have been received for proposed changes on the Interoceanic on the line between Metepec, Mexico, and San Lorenzo, Hidalgo, a distance of 42 kilometers, and consist mostly of grading and masonry work. The work is divided into three sections, the first from kilometers 61 to 74; the second, or middle division, kilometers 75 to 85, and the third from kilometers 86 to 102, inclusive. James M. Reid, Mexico City, is Ch. Engr.

NEW YORK CENTRAL & HUDSON RIVER.—Announcement is made that the Public Service Commission has finally approved the plans for an overcrossing at Genesee St., in Utica, N. Y., of the Central Hudson R. R., and for a new passenger depot, new freight yards and freight house for the same road. It has been announced that the railroad company will let the contract for the overcrossing on Sept. 15. The work will involve the expenditure of about $2,000,000.

The WALSH CONTRACTING CO., of Davenport, Iowa, has been awarded the contract for the roadbed and constructing the double track between Niagara Falls and Lockport Junction, N. Y.

OREGON EASTERN.—We are officially advised that contracts have been awarded as follows for building 59.48 miles of the Oregon & Eastern Ry., which is to extend from Natron to Klamath Falls, 198.6 miles. Of the work, now to be put under way, 34.24 miles will be southerly from Natron, and the remainder northerly from Klamath Falls. Contract for grading, masonry and tunneling, Klamath Falls north (25 miles), has been let to ERICKSON & PETTERSON, 841 Monadnock Bldg., San Francisco. Contract for grading, masonry and tunneling, Natron south (34 miles), has been let to the UTAH CONSTRUCTION CO., Ogden, Utah. As noted on July 22, the cost, according to press reports will be approximately $2,225,000, as a mountainous and heavily timbered country is to be covered, from Natron. G. W. Boschke is Ch. Engr., Portland, Ore.

PITTSBURG & GILMORE.—Company has filed with the Secretary of State, Boise, Idaho, an amendment to its articles of incorporation, providing for the projection of the road to Boise to be constructed through the Counties of Lemhi, Custer, Boise and Ada or Lemhi, Custer, Blaine, Elmore and Ada Counties. Either of these routes would be approximately 250 miles in length and extend from Salmon City to Boise. W. A. McCutcheon, Machesney Bldg., Pittsburg, Pa., is the promoter.

REDFIELD & SOUTHWESTERN.—Organized in South Dakota, with $2,000,000 capital, to build from Pierre, S. Dak., northeast via Oneida and Redfield, through Hughes, Sully, Hyde, Hand, Spink, Day and Roberts Counties to Brown Valley, Minn., about 200 miles. The incorporators include H. P. Packard, W. S. Clark, Z. A. Crain, P. Norbeck and E. O. Issenhuth, of Redfield; J. H. Gropenheiser and L. E. Snyder, of Oneida.

RED RIVER VALLEY & HUDSON BAY.—Incorporated in Minnesota with $500,000 capital to build a line to connect Oslo, Minn., in Marshall County, on the Minneapolis, St. Paul & Sault Ste. Marie Ry., north, following the Red River to St. Vincent, in the northwestern part of Kittson County on the Great Northern Ry., about 70 miles. Right-of-way has been secured through St. Vincent, Hill, Red River, Telin, Eagle Point and Big Woods. A. C. Twein is Pres., B. E. Herseth Secy., and E. Englebretson Treas., of St. Vincent, Minn.

ST. LOUIS, OKLAHOMA & GULF.—Company plans to let contracts at once and to begin work within 30 days and finish 75 miles of line from Mineola, Tex., north to Paris. The work includes grading, bridging and track laying, no rock work, some light cuts and fills, and three pile trestles, of 900 ft., 1,200 ft. and about 700 ft., respectively. M. J. Healy is Pres., Tyler, Tex.

SHINBONE VALLEY IRON & TIMBER CO.—It is stated that this company, which proposes to build a railroad from Pyriton to Abel, Ala., 16 miles, will be organized soon. Date for opening construction bids will be fixed at the organization meeting. Headquarters will be in Anniston, Ala. R. F. Kolb, of Montgomery, Ala., is Pres.; A. R. Sheffer, of Boston, Vice-Pres.; Dr. C. W. Huffman, of Lebanon, Tenn., Secy.; P. M. Clark, of Lebanon, Tenn., Treas. and Gen. Mgr.

ELECTRIC RAILWAYS.

PRESQUE ISLE, ME.—The Aroostook Valley R. R. Co. has completed grading on its proposed 12-mile line, connecting Presque Isle and Washburn, as noted on Aug. 5. Capital stock authorized, $100,000; issued, $100,000; bonds authorized, $300,000. A. R. Gould is Pres., Gen. Mgr. and Pur. Agt.; A. E. Irwing, Presque Isle, Vice-Pres.; H. W. Heath, Augusta, Secy.; Fred Barnes, Treas.; Ross Thomson, Supt.; E. S. E. Mosher, Elec. Engr., and W. A. Arthur, Ch. Engr., all of Presque Isle. Equipment has been purchased. MURRAY BROS., Houlton, Me., are the contractors.

CARLISLE, PA.—The Cumberland Ry. Co. has taken over the property of the Carlisle & Mount Holly Ry. Co. and proposes to build an extension from Carlisle to Newville, twelve miles, and later to Shippensburg. The officers of the Cumberland Railway Co. are: John Graham, Newville, Pres.; Walter Stuart, Carlisle, Secy. and Treas., and W. F. Pascoe, Carlisle, Gen. Mgr. Noted on July 22 and July 8.

JOHNSTOWN, PA.—The Johnstown & Gallitzin Ry. Co. has been chartered to construct an electric railway to connect Johnstown, Dale, Walnut Grove, Geistown, Elkton, Salix, Lovett, St. Michaels, South Fork, Summerhill, Wilmore, Portage, Lilly and Gallitzin, a distance of 32 miles. Capital stock authorized, $200,000; issued, $70,000. Wallace Sherbine is Pres.; Allan Sherbine, Secy.; H. W. Storey, Treas.; G. U. G. Holman, Gen. Mgr. and Elec. Engr., with headquarters in the Suppes Bldg., Johnstown. Noted on June 17.

PHILADELPHIA, PA.—The Philadelphia, Bristol & Trenton St. Ry. has been sold to Carl N. Martin and John Redmond, representatives of the bondholders' committee, at $380,000. Improvements may be made.

CHARLESTON, W. VA.—The Kanawha & Ohio Valley Traction Co. has been chartered to build a line, altogether 90 miles long, from Kanawha Falls to a point near Point Pleasant. Survey is being made between Charleston and Kanawha Falls. Line from Charleston to Dunbar, five miles northwest, will be built immediately. Fred Paul Grosscup, George S. Couch, Uphur Higginbotham, H. A. Robinson, S. P. Smith and F. A. Agney, all of Charleston, W. Va., are incorporators. Capital, $100,000. T. J. Carmack is Engr.

GAINESVILLE, GA.—The Gainesville Railway & Power Co. has made application for articles of incorporation. This company recently purchased the property of the Gainesville Electric Railway. The street railway in Gainesville consists of about eight miles of track. Headquarters, Gainesville. Capital stock, $150,000. Incorporators: A. G. Sharp, Atlanta; W. A. Carlisle, W. H. Slack, H. H. Dean, J. W. Smith and Z. T. Castleberry, Gainesville.

TROY, ALA.—The City Council has granted to W. R. White and associates a franchise to build a street railway in Troy.

JACKSON, MISS.—The Jackson Interurban Railroad, Light & Power Co. has been organized here to build the proposed railroad from Clinton to Jackson, ten miles, and to operate gas and electric light plants. W. H. Watkins, of Jackson, is Attorney. The incorporators include R. E. Kennington, J. W. Provine, W. J. Davis, Jake Ehrman, R. M. Taylor, C. W. Hicks, D. N. McLean, P. B. Bridges, R. H. Henry, A. C. Crowder, W. D. McRaven, W. M. Anderson, A. C. Jones and Frederick Sullens. Capital, $100,000. Application will be made for a charter. The line may be extended to Bolton, Edwards, Vicksburg and Coopers Well at a later date.

JEANERETTE, LA.—Henry A. Mentz, New Orleans, has been granted a franchise by the City Council to operate a railway by electricity or other motive power than steam in Jeanerette. The railway which Mr. Mentz proposes to build will connect Jeanerette and other towns of Teche Valley.

IRONTON, OHIO.—William Lemley, representing A. E. Cox and associates, of Huntington, has petitioned the County Commissioners for a franchise to construct an electric railway from Gallipolis to Ironton.

Thurman Braley, of Proctorville, has applied for a franchise to the County Commissioners to build an electric railway from Ironton to Millersport.

ZANESVILLE, OHIO.—At a recent meeting of the Zanesville & Meigs Valley Traction Co. the following officers were elected: Dr. C. T. Gale, of Blue Rock, Pres.; F. P. Ames, of Belpre, Vice-Pres.; Wm. G. Lawhead, Secy.; H. D. Blodgett, Supt. Headquarters, People's Savings Bank Bldg., Zanesville. Right-of-way is being secured and surveys are being made. Noted on July 29.

FORT WAYNE, IND.—The Fort Wayne & Toledo Electric Ry. Co. has had surveys made for its proposed line from Fort Wayne, Ind., to Bryan, Ohio, with a branch to Montpelier, Ohio, a total length of 53 miles. Contracts for its construction probably will be let in September. W. H. Cost, Bryan, Ohio, is Ch. Engr.; Edgar A. Tennis, Garden City, Kan., is Pres. Capital stock, $100,000.

GARY, IND.—Plans have been completed by the Gary, Hobart & Valparaiso Traction Co. for building its proposed railway which is to connect the cities named in the title. The road will be graded and culverts put in this fall preparatory to beginning construction work in the spring. B. A. Mapledoram is Gen. Mgr.

AURORA, IND.—The Cincinnati, Louisville & Indianapolis Electric R. R. Co. has been incorporated to build street and interurban railways in and between Greendale, Lawrenceburg, Aurora, Risen Sun, Patriot, Florence, Markland, Vevay, Lamb, Brooksburg, Kent, Blocher, Madison and Scottsburg. Principal office, Aurora. Capital stock, $100,000. Incorporators: Ames B. Shuts, John C. Hooven, C. E. Hooven, W. B. Mayo and Wilbur Hargitt.

BROOKPORT, ILL.—The Ohio Valley Traction Co. has been incorporated to build an electric railway from a point at or near Golconda, via Brookport, to Joppa, Ill. Headquarters, Brookport. Capital stock, $10,000. Incorporators: O. H. Margrave, G. W. Tucker, William Pell, H. W. Holifield and William D. Harrington, Brookport; Chenault Webb and Robert C. Leeper, Unionville, and C. L. Robertson, Paducah, Ky.

GALESBURG, ILL.—The City Council has granted to S. F. Atwood, Secy. of the Peoria & Galesburg Ry. Co., a 25-year franchise to operate a street railway in Galesburg. The Peoria & Galesburg Ry. Co. plans to construct a 60-mile line from Peoria to Farmington and Galesburg, Ill., with a spur from Bloomington to Canton. Surveys are made and practically all capital secured for construction of the line. Contracts will be let soon. C. H. Dunn, Peoria, Ill., is Ch. Engr. S. F. Atwood, Peoria, is Secy. and Treas. B. R. Stephens, of Springfield, Ill., is Pres. and Gen. Mgr.

SPRINGFIELD, ILL.—We are officially advised that the Springfield, Beardstown & Quincy Ry. Co. has completed its surveys. Right-of-way and franchises are secured. As noted on July 22, this company has all details completed for the construction of its line to Beardstown, a distance of 57 miles, and will build this section at once. W. J. Gates, Vice-Pres. and Gen. Mgr., Springfield, will be in charge of the letting of contracts and expects to receive proposals for same within the next 30 days, and desires to receive information from contractors, etc. This company was recently chartered to construct an electric railway from Springfield to Quincy via Beardstown. Capital stock, $25,000.

BELLEVILLE, ILL.—The Belleville & Mascoutah Traction Co. has been incorporated in Illinois, with $150,000 capital, and office at Mascoutah, to build from Bellville east to Mascoutah, in St. Clair County, about ten miles. The incorporators and first board of directors include E. J. Cole and A. Knobeloch, of Bellville; E. R. Hagist, G. J. Scheve and P. W. Liel, of Mascoutah.

CENTERVILLE, IOWA.—We are officially informed that the Centerville Light & Traction Co. will build an electric line from Centerville to Mystic, Iowa, a distance of seven miles. Plans and preliminary arrangements have been made. Bids have been asked and construction work is to begin by Sept. 1. Frank S. Payne is Gen. Mgr.; F. E. Holbrook is Engr., Centerville.

HOUSTON, TEX.—The County Commissioners have granted a 28-year franchise to L. A. Anderson representing the Westmoreland R. R. Co., to construct an electric railway from Houston to the Westmoreland Farm near Bellaire, a distance of 7 miles. The Westmoreland R. R. Co. was recently chartered to build a railway, to be operated other than by steam power, from Houston to Bellaire, a distance of seven miles. Capital stock, $40,000. Incoporators: W. W. Baldwin, Max Eggert, A. J. Condit and R. B. Henderson.

CORPUS CHRISTI, TEX.—Daniel Hewitt, Salina, Kan., has been granted a franchise by the City Council, to build an electric street railway in Corpus Christi. Estimated cost of railway is $100,000.

ENID, OKLA.—The Enid Central Traction Co. has been incorporated in Oklahoma, with [illegible],000,000 capital and office at Enid, to build from Enid, Okla., south, paralleling the Chicago, Rock Island & Pacific Ry., to El Reno, about 65 miles. The estimated cost of the line is $1,000,000. Company also plans to extend southwest from El Reno to Lawton, 70 miles, and to build other extensions as follows: From the Enid-El Reno line east via Crescent to Guthrie, 25 miles; Enid north via Pond Creek to Medford, thence east to Blackwell, 55 miles. The incorporators include: W. H. Stewart, R. W. Whittingill and C. E. Burkhart, of Enid; W. F. McMahon, O. W. T. McMahon and J. W. Smith, of Toledo, Ohio. It is proposed to begin construction work about Sept. 1.

TACOMA, WASH.—The Pacific Traction Co. plans the construction of extensions to Point Defiance, to South Tacoma, to Bismark and other short lines. T. G. Seixas is Gen. Mgr., 917 Pacific Ave.

The following officers of the Tacoma-Seattle Short Line Elec. Ry. Co. have been elected: James B. Murphy, Seattle, Pres.; Henry Ewing, Vice-Pres.; Arthur G. Prichard, Tacoma, Treas.; Alfred E. Rothermel, Tacoma, Secy. These, with L. P. Hornberger, Seattle, and C. L. Hoska, Tacoma, constitute the board of directors. The capital stock of the company, originally placed at $6,000,000, has been reduced to $4,000,000 by the setting aside of $2,000,000, which is to be used only in building extension and not in the main line between the two cities. A bond issue of $3,500,000 of 6 per cent. 20-year bonds are authorized, which will be taken over by the Eastman syndicate, as noted on June 24. This company will build a 30-mile double-track railway between Seattle and Tacoma.

SEATTLE, WASH.—J. R. McLaughlin and Paul C. Murphy have made application to the County Commissioners for a franchise to construct an electric railway over county roads to Laurelhurst.

EUGENE, ORE.—The Eugene & Pacific Western R. R. Co. has been incorporated to build an electric railway from Eugene to Florence. This company will take over the franchises and privileges obtained by the Eugene & Pacific Electric Ry. Co., recently organized for the purpose of building an electric railway to the coast. Capital stock, $300. Incorporators are F. J. Bergot, F. A. Anderson and Joseph Fellman, of Eugene, Ore.

REDMOND, ORE.—Kirk White and Ben. McCaffery, of Redmond, have been appointed a committee to secure right-of-way for an electric line, starting from The Dalles and running south through Madras, branching to Prineville and to Bend, with other branches and extensions as required.

MODESTO, CAL.—The Modesto Interurban Ry. Co., recently incorporated in California, has awarded contracts for grading its proposed standard-gage railway and the construction of a bridge over Dry Creek at Modesto. The line will connect Oakdale, Waterford, Empire, Turlock, Newman, Crow's Landing and Modesto. Construction has already been started. The motive power has not yet been definitely decided upon. Capital stock authorized, $200,000, of which $60,000 has been subscribed. Principal office, Modesto. T. K. Beard is Pres.; George Perley, Vice-Pres.; L. L. Dennett, Secy.; G. P. Schaefer, Treas., all of Modesto. W. A. Cooper, 1370 Franklin St., Oakland, is Ch. Engr.

CRESTON, B. C.—The Goat River Power & Light Co. plans to construct an electric railway from Creston to the Goat River, ten miles, and to build its own power plant. Power will be furnished for lighting and for other general purposes. Capital stock authorized, $1,000,000; issued, $300,000. R. S. Lennie, of Nelson, B. C., is Pres.; W. K. Essling, Rossland, B. C., Vice-Pres.; J. D. Anderson, Trail, B. C., Secy.-Treas.; W. F. Teetzel, Nelson, B. C., Gen. Mgr.

SALTILLO, MEXICO.—F. de J. Villareal, of Saltillo, State of Coahuila, who owns a short line of railroad running from Allende on the Mexican International Ry., to Zaragoza, has sold the pro[illegible] to a syndicate of Americans who are p[illegible]ng to extend the road to Las Vacas, sit[illegible]d on the bank of the Rio Grande opposit[illegible] Rio, Texas. The road will be about 10[illegible]s long when finished. It is to be op[illegible] by electricity.

LIGHT AND PO[illegible]R PLANTS.

LYONS, N. Y.—The [illegible]ster, Syracuse & Eastern R. R. Co., it [illegible]ted, plans to increase the output of [illegible] power plant at Lyons, and will insta[illegible] 5,000-HP. turbo-generator set. The b[illegible] capacity of the plant will be increas[illegible]nd transformers will be added. The [illegible]vements contemplated will increase th[illegible]put of the plant to 8,400 HP. Thos. H. [illegible]her is Ch. Engr., Syracuse, N. Y.

NEW YORK, N. Y.—[illegible] are asked by the Department of Park[illegible] 3 p. m., Aug. 26, for all materials a[illegible]bor required for furnishing and installi[illegible] electric lighting fixtures in new addition [illegible] of the Metropolitan Museum of Art, [illegible], Manhattan.

MINEOLA (L. I.), N. [illegible] The Public Service Commission, Albany, [illegible] authorized the Nassau & Suffolk Lighti[illegible] Co. to issue its preferred 6% capital sto[illegible] to the amount of $430,000, the proceeds to [illegible] used for extensions and improvements [illegible] its plant and distributing system. E. H. Mather, Gen. Mgr., Mineola.

RED HOOK, N. Y.—The Red Hook Light, Heat & Power Co. has plans under consideration for the construction of a hydro-electric power plant at Bingham's Mill, ten miles north of Red Hook. J. H. Sharpe is Pres.

ATLANTIC CITY, N. J.—The Atlantic City Electric Co. may erect a new electric light plant. Estimated cost, $156,000. E. M. Plummer is Ch. Engr., Atlantic City.

COLUMBIA, N. J.—We are officially advised that contract for the construction of a hydro-electric development across Paulin's Kill, Columbia, for the Warren County Power Co. has been awarded to FRANK B. GILBRETH, 60 Broadway, New York. The contract includes the construction of a Ransom hollow dam 30 ft. high and 350 ft. long, and a reinforced-concrete power-house, tailrace, etc. Meikleham & Dinsmore are Engrs.

THURMONT, MD.—Mayor Freeze, of Thurmont, Md., and L. R. Walsch are interested in a project to install a lighting plant for the city of Thurmont and vicinity.

RICHMOND, VA.—The Council Commission on Electricity has recommended the Council for adoption the award of contract for electrical machinery for the municipal plant to Hotchkiss & Gordon, local agents of the General Electric Co., the only bid received on July 21, at $96,592. Noted fully on Aug. 5.

ALBEMARLE, N. C.—City has voted to issue bonds to construct water-works, electric-light plant and sewer system. Engineer has not been selected. I. B. Miller is Mayor.

APALACHIA, N. C.—Announcement is made that the Carolina-Tennessee Power Co., which has acquired water rights for two hydro-electric power plants on the Hiawassee River, has increased its capital stock from $250,000 to $5,000,000. The company proposes to erect two plants six miles apart, one near the North Carolina-Tennessee boundary, near Apalachia, and will develop 30,000 HP. for transmission by electricity within a radius of 100 miles, to Ducktown, Tenn.; and Rome, Dalton and Athens, Ga. The cost of the plants is estimated at $4,000,000. W. L. Church is Pres., 165 Broadway, New York; Stanley R. Ketcham, Secy. and Treas.

WHITESTONE, GA.—Several hydro-electric opportunities in this vicinity are being investigated, in the interest of the marble industries, by H. von Schon, Consulting Engr., Detroit, Mich.

BREMEN, GA.—W. J. Radcliffe, Tallapoosa, Ga., has been engaged by the city to superintend the construction of the electric light plant to be installed at Bremen, for which purpose the citizens recently voted to issue $8,000 of bonds.

ELBERTON, GA.—Park A. Dallis, Engr., of Atlanta, Ga., has submitted report for increasing the equipment of the municipal electric-lighting plant, which has been approved by the city. A 300-HP. generator will be installed.

RUSSELLVILLE, ALA.—City Council has granted a franchise to Geo. K. Armes and Geo. C. Thornton, of Birmingham, Ala., to construct an electric-light plant and water-works system in Russellville.

LEXINGTON, TENN.—The city is considering the construction of an electric-light plant and water-works at a cost not to exceed $15,000. It is stated that detailed information concerning the proposition may be obtained by addressing H. E. Graper.

CANAL DOVER, OHIO.—Plans for the construction of the new municipal electric light plant have been approved by the City Council, which has authorized the Service Board to receive bids and enter into contracts for the power-house and equipment for same.

COLUMBUS, OHIO.—Plans have been approved by the Board of Prison Managers for the construction of the proposed new power plant to be erected at the penitentiary. Bids are asked by the Board until Sept. 9 for the power plant. Total cost, about $250,000 and will furnish electricity for lighting the penitentiary, the Institution for the Feeble Minded, in West Broad St., and the State House.

NEW PARIS, OHIO.—Robert Ashe, of Richmond, Ind., has secured a franchise to install an electric light plant in New Paris. Electricity for operating the system will be supplied from Richmond, Ind.

SHIRLEY, IND.—The Town Board has engaged George Wallace, of Anderson, to prepare plans for the construction of an electric-light plant and water-works for this town.

WINGATE, IND.—The Wingate Light Co., organized by C. L. Johnson, of Crawfordsville, Ind., has applied for a 10-year franchise to erect and equip an electric-light plant in this city.

INDIANAPOLIS, IND.—The Board of Trustees of the State Reformatory has awarded the contract for the installation of a heating plant at the institution to the INDIANA ENGINEERING CO., of Indianapolis, at $7,-800, for a system calling for the use of the valves of the Simonds Heating & Ventilating Co., of Detroit.

NOBLESVILLE, IND.—The Noblesville Heat, Light & Power Co., of Noblesville, has purchased a 300-KW. Allis-Chalmers turbine, two 200-HP Sterling boilers and auxiliaries as additions to its power-house.

COLUMBIA CITY, IND.—See Water-Works.

GRAND RAPIDS, MICH.—Contract for the construction and remodeling the new water-works pumping and municipal electric lighting plant on Canal St. has been awarded to HAUSER, OWEN & AMES, of Grand Rapids, at $89,571. Other bidders were Gentz Bros., $94,697; J. H. Sullivan, $108,126.

IRONWOOD, MICH.—We are officially advised that the Ironwood Gas Co. has awarded contract to the GENERAL CONSTRUCTION CO., 703 Union Trust Bldg., Detroit, Mich., providing for the construction of a gas plant complete in Ironwood, Mich., and in the Village of Hurley, Wis. This plant will be a water gas plant and will have 9½ miles of mains installed, varying in sizes from 12 ins. to 2 ins. Noted on July 22.

NORTH CHICAGO, ILL.—Bids will be received at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Aug. 24, for the construction of a system of heating and laying of mains and conduits for the distribution of electricity at the Naval Training Station, North Chicago.

STREATOR, ILL.—The City Council has granted a 25-year franchise to C. A. King to furnish light, heat and power in Streator.

MADISON, WIS.—The Wisconsin Hydro-Electric Power Co., with headquarters at Madison, has been granted permission by the War Department to build a power dam across the Wisconsin River at Prairie du Sac, Wis., on condition that the river is kept open to navigation by the construction of locks. Magnus Swenson, Madison, is Pres.

PETERSON, IOWA.—City has voted to install an electric-light plant.

NORTHFIELD, MINN.—General contract for the construction of a central heating and lighting plant for Carleton College has been awarded to J. R. ROBERTSON, of St. Paul, Minn., at $37,000. Harlan W. Page is Secy., Board of Trustees.

PARK RAPIDS, MINN.—The POWER ENGINEERING CO., Corn Exchange Bldg., Minneapolis, Minn., has secured the contract from L. H. Rice, of St. Paul Rapids, for the construction of a complete new hydro-electric plant, consisting of a reinforced-concrete flume, head race and power-house.

TYLER, MINN.—See Water-Works.

RUSSELL, KAN.—At a recent election citizens voted to issue $25,000 of bonds for an electric-light plant and water-works system.

WAKEENEY, KAN.—City has voted to issue $30,000 of bonds for the construction of a water-works system and $10,000 for an electric-light plant. George P. Taylor, of Stockton, Kan., is Engr.

BROKEN BOW, NEB.—John W. Early, of Columbus, Neb., who was recently granted a franchise to operate an electric plant in Broken Bow, is preparing plans for the construction of the plant, the cost of which is estimated at $25,000. A company will be organized under the name of the Broken Bow Electric Co. to operate the system.

HILL CITY, S. DAK.—R. T. Walker, of the Gold Medal Mining Co., is interested in a water-power project which will cost about $40,000. The company has recently been organized and proposes to install electrical machinery and utilize the energy for mining purposes and for lighting the town as soon as the company can secure the necessary funds. It is proposed to develop about 200 HP. Mr. Walker, it is stated, desires to communicate with persons who would finance the company or put up the capital required to build the flume and install the machinery.

PIERRE, S. DAK.—We are officially advised that bids were opened on July 28 by the South Dakota Capitol Commission for the electric fixtures for the new South Dakota capitol. Bids were based upon a fixed price of $15,000. Contract was awarded to the ENOS CO., 36 West 37th St., New York. Sam'l H. Lea is State Engr.

GREAT FALLS, MONT.—The Village Trustees have granted a franchise for lighting the town to G. H. Gay, of Great Falls, Mont. Mr. Jay proposes to install a water-power plant at an estimated cost of $35,000.

ST. LOUIS, MO.—We are officially informed that the Courtney Shoe Co., St. Louis, is arranging to enlarge its power plant with a view of supplying its entire requirements for light and power. Proposals for one 200-HP. high-speed Corliss engine, one 125-KW. 3-wire direct-current generator, and twelve 230-volt motors of various horse-powers, have been invited by William H. Bryan, Consult. Engr., 315 Lincoln Trust Bldg., St. Louis.

McKINNEY, TEX.—Definite arrangements have been made by the Commercial Club for the establishment of a gas plant in McKinney at an estimated cost of $100,000.

*GREENVILLE, TEX.—Bids were received by Joseph F. Nichols, Mayor, on July 27 for constructing a lighting and power plant here. The J. W. Maxcy Co., Houston, Tex., are Engrs. Contract for steam and electric equipment was awarded to the ALLIS-CHALMERS CO., Milwaukee, at $38,100.

HYDRO, OKLA.—See Water-Works.

OKEMAH, OKLA.—M. A. Earl, Muskogee, Okla., is preparing plans for electric-light plant and water-works; estimated cost, $50,000.

GRANITE, OKLA.—City will call for bids soon for the construction and equipment of an electric-light and water plant in Granite. The cost of the plants is estimated at $45,000.

RATON, N. MEX.—We are officially advised that this city, with a population of about 8,000 people, is to be provided with gas works by local capitalists. The plant will be of the coal gas type. Plans and specifications are now in course of preparation at the office of Henry I. Lea, Gas Engr., The Rookery, Chicago.

ALAMOGORDO, N. MEX.—The Territorial Engineer has granted the application of the White Mountain Power Co. to take 130 sec.-ft. out of the Ruidoso River and tributaries in Lincoln County for the development of 5,000 HP., to be distributed for pumping, electric light and other purposes at Fort Stanton, Carrizozo and other places. A proviso is inserted that power shall be sold to settlers in the Ruidoso Valley at the same price as it is sold to other customers and that the water shall be returned to the streams undiminished in volume. The power plant is to cost $200,000 and the main canal is to be ten miles long. Thirty sec.-ft. are to be taken out of the North fork; 35 sec.-ft. out of the Middle and South forks and 60 sec.-ft. out of the Ruidoso. Out of the Corizo six sec.-ft. will be taken, while an application to take 6 sec.-ft. out of Cedar Creek was denied. The applicants are Oliver M. Lee, C. E. Mitchell and J. L. Lawson, of Alamogordo. The lands through which these streams flow are mainly located on the Mescalero Indian Reservation.

NORTH YAKIMA, WASH.—The Central Heating Co., which was recently granted a franchise for supplying steam heat in the city, has let contract for installing its plant to the SCHOTT ENGINEERING CO., 125 Monroe St., Chicago, for $62,000.

HANFORD, WASH.—We are officially informed that the Hanford Irrigation & Power Co. has awarded the ALLIS-CHALMERS CO., of Milwaukee, the contract for a duplication of its machinery at Priest Rapids. The cost will be $50,000. The building is already constructed to receive the machinery. Mr. H. M. Walthew is Secy.; G. T. Petheram is Ch. Engr. of the Irrigation Co.

TOLEDO, ORE.—The City Council has granted a 25-year franchise to H. L. Collins, A. C. Smith and J. F. Stewart for the erection and maintenance of an electric light system. The same company will also operate a cold storage plant and creamery, and later a cannery. The light plant is to be erected at once, and to be in operation within six months.

MARE ISLAND, CAL.—Bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a. m., Sept. 11, for the construction of a central power-station at the United States Navy Yard, Mare Island, Cal. Specifications are on file at office of Engineering News, New York.

BODIE, CAL.—The Walker River Electric Power Co., headed by George P. Costigan and Dr. A. L. Pollard, of Denver Colo., has secured from J. P. Conway, of Sweetwater, Nev., deeds to his water rights on the East Walker River, and certain lands adjacent. With the expenditure of upwards of $750,-000, the company will erect a power plant to supply the mine operators at Sweetwater, east to Lucky Boy and Hawthorne, west to Aurora and Bodie, and north to Masonic. The East Walker River, from which the power will be generated, has a flow of 6,-000 cu. ins. per sec. during the driest seasons.

PRESCOTT, ARIZ.—J. B. Cleveland, Gen. Mgr. of the Arizona Central Copper Co., is in the market for new electrical equipment for the Shylock mine preparatory to resuming operations. New electrical hoist, electrical pump and Temple drills are to be purchased.

TORONTO, ONT.—Contracts for the construction of the transformer stations at Toronto and London have been awarded by the Hydro-Electric Power Commission. WITCHALL & SON, of Toronto, secured the contract for the station at Toronto, for $36,500, and HYATT Bros., of London, the London station, for $23,500. The contracts for the remaining eight stations, at Woodstock, Paris, Berlin, Stratford, St. Mary's, Preston, St. Thomas and Guelph, will be let soon. John Hayman & Sons, of London, Ont., have submitted a bid for all the stations of $148,000, or $18,500 for each building. Noted on July 22.

Bids are asked by the city until noon, Oct. 14, for furnishing the following electric motors: Four 1,500-HP. synchronous motors; two 1,500-HP. induction motors; four 500-HP synchronous motors; four 500-HP. induction motors; two 225-HP. synchronous motors; with exciters, switchboards, connecting material, etc.

BRIDGES.

(*** *denotes that this work is advertised in Engineering News.*)

YONKERS, N. Y.—Contract for constructing the bridge over the Nepperhan River at Center St., bids opened on July 26, it is reported, has been awarded to MOLLOY & MURRAY, at $7,040.

UTICA, N. Y.—Plans have been prepared for the overhead crossing or viaduct at Genesee St., to be constructed by New York Central & Hudson River R. R. Co., E. B. Freeman, Engr. of Construction, New York.

CHATHAM, N. J.—Contract for the construction of the reinforced-concrete and steel-arched bridge over the Passaic River at the end of Morris Turnpike was awarded on Aug. 9 by the Joint Committee of Union and Morris County Boards of Freeholders to the LEHIGH CONTRACTING CO., of Pennsylvania, at $12,500.

CRANFORD, N. J.—Bids were opened on July 30 by the city for the construction of bridge over the Rahway River at North Ave. Contract has been awarded to W. E. WARREN, of Mount Vernon, N. Y., at $7,792 for plate-girder type of structure. Jacob L. Bauer is Engr., 130 Broad St., Elizabeth, N. J.

LEWISTON, PA.—Bids will be received until Aug. 28 by the Board of County Commissioners, Lewiston, J. H. Close, Chn., for constructing a concrete arch bridge across Honey Creek, near Honey Creek Station, to consist of two 46-ft. arches in the clear with 16-ft. clear roadway.

BUTLER, PA.—Bids will be received by the County Commissioners, Butler, until Aug. 20 for the construction of the following bridges: Island bridge, over branch of Muddy Creek, in Muddycreek Township; Cobbett bridge, over branch of North Bear Creek, in Allegheny Township.

EBENSBURG, PA.—The FORT PITT BRIDGE CO., House Bldg., Pittsburg, was awarded contract on Aug. 2 for the iron work to be used in the construction of the proposed bridge across the Pennsylvania R. R. tracks at South Fork for the use of the public and the Southern Cambria St. Ry. Co.

PITTSBURG, PA.—N. S. Sprague, Supt. Bureau of Construction, Dept. Pub. Wks., has prepared plans for the Larimer Ave. bridge over Beechwood Boulevard. Bids for the structure may not be asked before January. The citizens recently voted $175,000 of bonds for the building of the bridge. The structure will be 630 ft. long, with a roadway of 50 ft. and 10-ft. sidewalks. The main span will be 300 ft. and will stand 115 ft. above the boulevard.

PHILADELPHIA, PA.—Bids are asked by W. Hunter, Ch. Engr., Philadelphia & Reading Ry. Co., 520 Reading Terminal, Philadelphia, until noon, Sept. 1, for contract No. 37, signal bridges, Green St. to Norris St.

*WASHINGTON, D. C.—Contract for removing the old Anacostia bridge across the Anacostia River at the foot of Eleventh st, bids opened on July 31, has been awarded to MARTIN McNAMARA, Union Trust Bldg., Washington, at $5,520. List of bidders noted on Aug. 5.

WYTHEVILLE, VA.—Bids are asked by Wythe County until Sept. 6 for constructing a bridge across Reed Creek. J. B. Hurt is Clk. Bd. of Supervisors.

BRUNSWICK, GA.—Glynn and McIntosh Counties are considering constructing a steel bridge across Altamaha River between Brunswick and Darien.

HUNTSVILLE, ALA.—The City Council has adopted plans by and awarded contract to the TENNESSEE CONCRETE & CONSTRUCTION CO., Knoxville, Tenn., at $8,-886, for constructing a 3-span concrete bridge over Pinhook Creek.

GREENWOOD, MISS.—Bids are asked by the Le Flore County Board of Supervisors until Sept. 6 for constructing a steel bridge across the Tallahatchie River near Ashwood Ferry. C. W. Crockett is Clk. Bd.

LELAND, MISS.—The Board of Supervisors have let contract for a new steel bridge over Deer Creek here to the JOLIET STEEL BRIDGE CO., work to commence at once and completed within 90 days. Estimated cost, $3,230.

PORTSMOUTH, OHIO.—Bids are asked until noon, Aug. 23, by F. N. Tyres, County Audr., for constructing two 120-ft. span steel bridges.

CLEVELAND, OHIO.—The Baltimore & Ohio R. R. Co. has awarded contracts to construct a double-track Sherzer rolling lift bridge across Cuyahoga River at Cleveland, as follows: Superstructure, 1,100 tons, to PENNSYLVANIA STEEL CO., Girard Bldg., Philadelphia, Pa., and substructure, to CHAS. A. SIMS & CO., of Philadelphia. Estimated cost, about $275,000. The bridge will be 200 ft. long to center of bearings and will have 2-deck plate girder approach spans 43 ft. long.

SANDUSKY, OHIO.—Bids will be received until Sept. 3 by the Board of County Commissioners for constructing a 30-ft. span arch bridge 80 ft. wide across Pipe Creek on Milan road, Perkins Township. Bids may be submitted on the bridge as a whole or the substructure and superstructure separately.

FOSTORIA, OHIO.—Bids are asked until noon, Sept. 7, by the Commissioners of Hancock County for the construction of a new reinforced-concrete bridge across Portage Creek on Vine St. here. John A. Sutton is County Audr.

FORT WAYNE, IND.—Bids will be received until Aug. 25 by the Board of County Commissioners, John R. Wyss, Chn., for 14 culverts, a small steel bridge, two concrete abutments and retaining wall and I-beams.

GREEN CASTLE, IND.—Bids are asked by the Commissioners of Putnam County until 11 a. m., Aug. 25, for the construction of three new bridges, including both the substructures and superstructures. D. V. Moffitt is County Audr.

GREENSBURG, IND.—The Commissioners of Decatur County are asking for bids for the repair of two bridges. Frank D. Ryan is County Audr.

SALEM, IND.—Bids will be received until 1.30 p. m., Aug. 28, by the Commissioners of Washington County for the construction of a steel bridge 50 × 14 ft. and the construction of a steel bridge 65 ft. span 14 ft. roadway over Blue River in Polk Township. Sam. G. Ellis is County Audr.

PERU, IND.—Bids are asked by the Commissioners of Miami County until Aug. 27, for the construction of a bridge in Pipe Creek Township and repair of two bridges in Perry Township. Charles Griswold is County Audr.

ANDERSON, IND.—The Indiana Union Traction Co. has ordered plans for the construction of three new steel bridges over White River and one over Fall Creek, near this city. Bids will probably soon be advertised for.

SHELBYVILLE, IND.—Bids are asked by the Commissioners of Shelby County until Sept. 6, for the construction of ten new concrete arch culverts, four in Shelby, two in Brandywine, two in Moral, one in Hendrecks and one in Sugar Creek Township.

COLUMBUS, IND.—The Commissioners of Bartholomew County are asking for bids for the construction of one and the repair of three bridges. J. M. Davis is County Audr.

BRAZIL, IND.—Bids are asked by the Commissioners of Clay County, until Sept. 7, for the construction of a 50-ft. steel bridge. J. L. Burnes is County Audr.

PORT HURON, MICH.—JAMES O'SULLIVAN & SON have secured contract at $17,000 for the erection of the new overhead bridge on Military St. here.

PEKIN, ILL.—The TREMONT BRIDGE & CONCRETE CO., Tremont, Ill., has been awarded contract, at $7,089, for constructing a steel bridge over the Mackinaw River at Keeper's Ford in Dillon Township, to have a 200-ft. span and 30-ft. approach.

BARABOO, WIS.—Contract for constructing a concrete bridge across the Baraboo River, bids opened on Aug. 2 by the Street and Bridge Commissioner, has been awarded to the ILLINOIS BRIDGE CO., 1522 Monadnock Bldg., Chicago, Ill., at $7,500.

SLEEPY EYE, MINN.—Bids are asked until 2 p. m., Aug. 25, by Joint Committee of Brown County and Town of Prairieville, for constructing four steel bridges, bidders to submit plans and specifications for 24, 26 and 28-ft. spans. Herman Polkow is Secy. County Com.

EDEN, MINN.—Bids are asked until 10 a. m., Aug. 23, by Joint Committee of Brown County and Town of Eden, for constructing steel bridges at Eden, bidders to submit plans and specifications with bid. H. W. Jennings is Chn. Town Bd.

MINNEAPOLIS, MINN.—The plans of Chris Oustad, City Bridge Engr., for a bridge 1,364 ft. long, 36-ft. roadway, and two 6-ft. walks across the Mississippi River at 42d Ave. North to 37th Ave. N. E., have been approved. Estimated cost, $185,000.

Plans are being prepared for a new bridge which it is proposed erecting at Plymouth Ave. to replace present structure, which provide for nine spans, each 156 ft. Estimated cost, $150,000. No action has yet been taken on this bridge.

Plans are also to be prepared for two other bridges, one at 20th Ave. South, to connect with 11th Ave. S. E., to be 1,245 ft. long, consisting of ten spans, and estimated to cost approximately $192,000, the other to connect 3d Ave. South and First Ave. S. E. Estimated cost, $400,000.

The County Commissioners intend constructing a new bridge across the Narrows at Lake Minnetonka. Frank Haycock, County Surv., has been directed to prepare plans for a steel bridge, a concrete bridge and a combination concrete and steel bridge.

TOPEKA, KAN.—Bids are asked until Aug. 20, by the County Clerk for constructing a steel bridge over Soldier Creek at Central Ave., bridge to be of one span 150 ft. long and to have concrete floor. Estimated cost, $4,900.

CLEAR LAKE, S. DAK.—Bids will be received by the Board of County Commissioners of Deuel County until 2 p. m., Sept. 7, for the construction of two bridges in Deuel County, one to be 24 ft. in length and to be constructed of steel, with cement foundation, bidder to furnish all material and labor; the other to be 24 ft. in length and to be constructed of wood with pile foundation, county to furnish all material for wooden bridge. G. E. Force is County Audr.

HOUSTON, TEX.—Harris County has voted $500,000 of bonds for bridge and road construction.

MUSKOGEE, OKLA.—The County Commissioners of Muskogee, Wagoner and Sequoyah Counties are jointly considering the construction of two bridges across Arkansas River to cost $150,000, one to be located at Haskell and other to connect Webbers Falls and Illinois Station.

BELLINGHAM, WASH.—A. J. RIFFE and W. M. WHITE, Bellingham, Wash., have secured contract, at $12,981, for the removal of drawbridge from old channel wing dam and pile the trestle work over old channel and approaches to same.

ALAMEDA, CAL.—Bids are asked by Lieut.-Col. John Biddle, Corps. Engrs., U. S. A., until noon, Aug. 30, for repairing bridge over Tidal Canal at High St.

PALA, CAL.—Bids will be received until 2 p. m., Sept. 8, by the Commissioner of Indian Affairs, Washington, D. C., for furnishing material and constructing a bridge over San Luis Rey River, Pala Reservation, Cal. Philip T. Lonegran is Supt., Pala.

SUISUN, CAL.—The Board of Supervisors on Aug. 2 awarded to C. H. GILDERSLEEVE, of Napa, Cal., contract for constructing a concrete bridge across Suisun Creek, in Suisun Valley, five miles west of here, at $5,950.

RUPERT, IDAHO.—The $15,000 steel and concrete bridge across the Snake River, for which the Legislature appropriated $10,000, is now assured. The $5,000 needed to complete the fund has been raised. The new bridge will connect up the two sides of the Minidoka irrigation project at a point about midway between the dam and Burley. A. F. Beymer, of Rupert, is a member of the Bridge Commission.

SPRINGSTON, IDAHO.—Bids are asked by the Board of County Commissioners of Kootenai County, Idaho, until Sept. 14 for the construction of a trestle near Springston, according to plans and specifications on file with the County Surveyor.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The Springfield Gaslight Co. will begin the construction of a building on State St., near the corner of Water St., about Sept. 1. The ground floor will be finished off as a general office and the second floor will contain quarters for the various officers of the company. The building will be in the French Renaissance style of red brick with white stone facing. The building, which will be 81 ft. 6 ins. long and 62 ft. 6 ins. wide, will be located in the empty lot adjoining the present works office of the company. The latter will not be disturbed, but will continue to be the headquarters of the manufacturing end of the business. The new building will be placed back from the sidewalk about twelve feet and will be surrounded on all sides by grass. The building will be ready for occupancy April 1. Winslow, Bigelow & Wadsworth, Phillips Bldg., Boston, Mass., are Archs.

HARTFORD, CONN.—Bids for the construction of a fireproof building in connection with the state chemical laboratory at New Haven, for which $30,000 has been appropriated by the legislature, will be received by Thomas D. Bradstreet, State Comptroller, until noon, Sept. 14.

WILLIMANTIC, CONN.—Contract for the heating plant at the State Normal School has been awarded to the PECK & McWILLIAMS Co., of Norwich, at about $10,000.

BROOKLYN, N. Y.—Arbuckle Bros. are preparing foundations for a 10-story concrete building, which is to occupy an entire block 200 ft. square. The building, which will be used exclusively by the builders, will be built on the block bounded by John, Pearl, Plymouth and Jay Sts., Brooklyn.

BROOKLYN, N. Y.—Bids were received as follows on Aug. 14 by the Bureau of Yards and Docks, Washington, D. C., for alterations to the Naval Hospital, Brooklyn: Joseph L. Bauer, Brooklyn, $6,372; Concourse Construction Co., New York, $8,940; Beaver Construction Co., 26 Exchange Pl., New York, $6,237; Neptune B. Smith, 1123 Broadway, New York, $8,687; United Plumbing & Contracting Co., Brooklyn, $7,387; Fred W. Conner Co., 1123 Broadway, New York, $5,400; Newport Plumbing & Heating Co., Newport News, Va., $7,254; Graf & Hauch Co., Brooklyn, $6,989; George Hildebrand, 38 Park Row, New York, $7,860; Wormser-Goodman Co., 2 Rector St., New York, $6,620.

The Prudential Holding Co., 350 Fulton St., Brooklyn, has awarded to JOHN AUER & SONS, 648 Lexington Ave., Brooklyn, the general contract to erect the 1-story fireproof limestone bank building, 50 × 75 ft., at the southeast corner of Vernon and Stuyvesant Aves. Cost, $60,000. Daus & Otto, 130 Fulton St., Manhattan, are Archs. The Prudential Savings Bank, 975 Broadway, Brooklyn, is lessee.

NEW YORK, N. Y.—George F. Johnson's Sons will improve the plot of seven lots at the northwest corner of 113th St. and Broadway with a 12-story apartment house. Cost, about $1,500,000. George and Edward Blumberg are Archs.

Bids were received on Aug. 10 as follows for furnishing all the labor and materials required for the completion of new annex and additions and alterations to the present fire headquarters building located on East 68th and East 67th Sts., between Lexington and Third Aves.: Calumet Construction Co., 15 East 59th St., $109,616; N. B. Smythe, 1123 Broadway, $124,973; F. T. Nesbit, 116 Nassau St., $122,364; Morningside Construction Co., $120,000.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Aug. 26, for all labor and materials required for alterations and repairs to the Aquarium Building in Battery Park, Boro. of Manhattan, including reroofing, reflashing, repairing old skylights, repairing ballustrade, cutting new dome lights in ceiling over pools, supplying sash and reglazing same.

Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., Aug. 24, for furnishing all the labor and materials required for additions and alterations to quarters of Engine Company 57, located at Battery Park, Boro. Manhattan; and for furnishing all the labor and materials required for repairs to quarters of Engine Company 48, located at No. 2504 Webster Ave., Boro. of The Bronx; and for repairs to heating system at quarters of various companies in the Boroughs of Manhattan and The Bronx.

Bids will soon be asked by D'Oench & Yost, Archs., 289 Fourth Ave., for a 6-story loft building, 50 × 100 ft. Estimated cost, $50,000. L. T. Alton, 1418 Broadway, is owner.

TROY, N. Y.—R. Clipston Sturgis, 120 Boylston St., Boston, Mass., is preparing plans for a 3-story and basement brick, stone and steel fireproof school, 100 × 200 ft., to be erected on Seventh Ave., between State and Congress Sts., Troy, by the Board of Contract and Supply, James H. Reilly, Secy. The building will include a gymnasium, manual training department, foundry forge and machine room, assembly hall including a gallery to seat 700. Plans will be ready for bids about Sept. 15. Estimated cost, $375,000.

BUFFALO, N. Y.—The Enoch Realty Co. will build for the Raleigh Hotel Co., lessees, a 4-story and basement addition to the Raleigh Hotel, Franklin St. near West Tupper St., 34 × 56 ft., brick, stone and structural iron. Cost, $25,000. John H. Coxhead, Arch., 928 Ellicott Square Bldg., will receive bids.

William B. Lynde, 621 Ellicott Square Bldg., has had revised plans prepared and will receive bids for a 4-story and basement apartment house, 50 × 120 ft., brick stone trimmings and structural steel, which he will erect on Johnson Park. Approximate cost, $50,000.

HUDSON, N. Y.—The bids received on Aug. 14 by the Board of Managers of the New York State Training School for Girls at Hudson, for the construction of a new power-house, coal pockets and trunk conduit, were: John Dyer, Jr., Albany, N. Y., $50,200; Ross-Bush Co., New York, $56,494; The R. T. Ford Co., Rochester, N. Y., $59,973; R. Richards & Son, Utica, N. Y., $66,616; W. W. Lindsay & Co., 902 Harrison Bldg., Philadelphia, Pa., $68,840; A. E. Stephens Co., Albany, $66,875; Frank Besch, Troy, N. Y., $70,390; Morris Kantrowitz, Albany, $78,000. F. B. Ware is State Arch.

SCHENECTADY, N. Y.—R. E. Burger, of Glens Falls, will tear down the present store at 136 State St. and will erect a furniture store on the site. Orin Finch, Arch., is preparing plans for a 5-story building. The plans will call for a fireproof structure of reinforced concrete and terra cotta. The front will be polished granite with the exception of the ornamental iron window casings and the large plate glass display windows. The estimated cost is $50,000.

JERSEY CITY, N. J.—Bids were received as follows by the County Building Committee on Aug. 11 for furnishing and installation of the metal furniture in the office of the County Clerk in the new Court House buildings: Art Metal Construction Co., 349 Broadway, New York, $25,900; Jamestown Metal Furniture Co., 18 West 27th St., New York, $39,900; John Gill & Sons, 12 West 31st St., New York, $48,500.

PHILADELPHIA, PA.—Carey & Reed were granted a permit on Aug. 11 for the reinforced-concrete work on the new building for the People's Trust Co., in course of construction at the northeast corner of Twelfth and Arch Sts. Estimated cost of the work, about $60,000.

ALLENTOWN, PA.—The stockholders of the proposed Hotel Martinique at Fifth and Hamilton Sts., have elected W. A. Benjamin, of New York, Pres.; S. J. Prudent, of Philadelphia, Vice-Pres.; Andrew Morgan, of Slatington, Secy. and Treas. These, with John F. Redington, of Wilkesbarre; C. J. Earley and M. F. Goodman, of Allentown, constitue the Board of Directors. The company will be incorporated at $400,000, divided into 8,000 shares. Within the next two weeks the property will be taken over, when the bids for the construction of the hotel will be asked for. The plans have been made by Ruhe & Lange, Archs., 10 North Sixth St., Allentown, and call for a 7-story building of iron frame work. The first floor is to be of stone. The building is to be of stone. The building is to have 167 sleeping rooms. There will be a roof garden on the top. The property on which the building will be erected will be 122 × 230 ft.

*WASHINGTON, D. C.—Bids are asked until 2 p. m., Sept. 15, by the Secretary of the Interior, Washington, for the construction of a science hall at Howard University, Washington. Jesse E. Wilson is Acting Secy.

WASHINGTON, D. C.—We are officially advised that Milburn, Heister & Co., Archs., Home Life Bldg., have prepared plans for a 7-story office building for W. H. Walker and O. H. P. Johnson. The contract has been awarded to the BRENNAN CONSTRUCTION CO., 3056 K St., and BARBER & ROSS, Eleventh and G Sts., N. W., will furnish the steel work.

The same architects have awarded the contract for the steel work for a 5-story loft business building for C. C. Calhoun, Evans Bldg., to the AMERICAN BRIDGE CO., 50 Church St., New York. The building will cost approximately $60,000. It will be located at 1322 New York Ave., on property recently purchased from the Thompson Estate. It will occupy all of that lot, having a frontage of 25 ft. on New York Ave. and a depth of 200 ft. to an alley. According to the plans, the structure will be of steel and terra cotta construction throughout and thoroughly fireproof, with a facing of ornamental cream-colored terra-cotta on its New York Ave. frontage. It will be of the Renaissance type of architecture, with large bay windows running to the full height of the five stories.

WASHINGTON, D. C.—Bids are asked until 11 a. m., Sept. 18, by the Bureau of Yards and Docks, Navy Dept., Washington, for constructing hospital buildings on the naval hospital reservations at Chelsea, Mass., Newport, R. I., and Portsmouth, N. H. Specifications are on file at the office of Engineering News, New York.

NORFOLK, VA.—Bids were received as follows on Aug. 7, by the Bureau of Yards and Docks, Navy Department, Washington, for improvements to Building 16, at the Norfolk Navy Yard: B. O. Williamson & Co., $20,386; J. H. Brinson, Hampton, Va., $20,740; Joseph Seay & Co., Petersburg, Va., $21,671; Penn Bridge Co., Washington, $20,290; E. Hart, Norfolk, Va., $20,912.

*RICHMOND, VA.—Bids are asked by the Supervising Architect, Treasury Dept., Washington, D. C., until 3 p. m., Sept. 20, for reconstruction of U. S. Post-Office, Court-House and Custom-House at Richmond.

GARY, IND.—The Unity Hotel Co., recently organized, will ask for bids soon for the erection of a modern hotel. Oscar E. Otto is Pres.

GOSHEN, IND.—A site on Lincoln Ave. and Sixth St. has been selected for the construction of a new Federal building. Bids will be asked for about Oct. 15 by the Supervising Architect, Washington, D. C.

INDIANAPOLIS, IND.—New bids will be asked by the Helen Realty Co. for the construction of a 4-story hotel and theater at corner of New York and Illinois Sts. The Building Inspector refused to approve the original plans.

Bids are asked by John E. Cleland, Business Director, School Board, until Aug. 31, for the installation of a modern heating plant in school building No. 54 in East Tenth St. and in school No. 49 in West Morris St.

The trustees of the Southern Reformatory, Jeffersonville, have let contract to the INDIANA ENGINEERING CO. for the installation of a modern steam heating plant.

Plans have been approved for the erection of two Carnegie library buildings in this city, one on West Ohio and one on West Morris St. John E. Cleland will receive the bids.

FORT WAYNE, IND.—Charles F. Centlivre has ordered plans for the construction of a new and modern hotel on Baker St. Estimated cost, $35,000. Bids will be asked as soon as plans are completed.

Bids are asked by the Trustees for the School for Feeble Minded Youth, A. E. Carroll, Supt., until Sept. 14, for the construction of a brick custorial building. Mahurin & Mahurin are Archs.

GRAND RAPIDS, MICH.—Bids will be received by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., Sept. 8, for installation complete of radiator air exhausting system at the U. S. post-office and court-house, Grand Rapids.

DANVILLE, ILL.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to E. J. RYAN, Danville, Ky., contracts as follows in connection with the construction of the Danville, Ill., post-office: Heating and ventilating, $11,239; plumbing, $5,950.

CHICAGO, ILL.—We are officially advised that plans for the proposed home of the City Club, at 9 to 11 Plymouth Court, now under consideration by the members, show a 6-story and basement building. Pond & Pond, Steinway Hall, are Archs. The site, on which an option for a 99-year lease has been obtained, has a frontage of 50 ft. on the east side of Plymouth Court and a depth of 93 ft., with alleys on the north and east sides, and is a short distance south of Jackson Boulevard. The building will cost, it is estimated, about $60,000.

KENOSHA, WIS.—The Common Council has made an initial appropriation of $15,000 for the construction of a new city hall in 1910 or 1911, this amount to be increased to $50,000 later. T. Gaastra, Arch., Kenosha, has submitted tentative plans. Competitive plans will be called for later.

GREEN BAY, WIS.—The congregation of the Roman Catholic Church of St. Peter and St. Paul has voted to erect a new edifice next spring at a cost of $33,000.

OSHKOSH, WIS.—Foeller & Schober, Archs., Green Bay, Wis., have been commissioned by the State Board of Control of Charitable and Penal Institutions, Madison, Wis., to prepare plans for the proposed new hospital for criminal insane, to be erected at Oshkosh, seat of the Northern Hospital for Insane. The 1909 Legislature appropriated $100,000 for this purpose.

MILWAUKEE, WIS.—Esenwein & Johnson, Archs., Buffalo, N. Y., have awarded contract on $35,000 addition to St. Mary's Hospital, Lake Drive and North Ave., consisting of boiler house, kitchen and laundry, to H. SCHMIDT & SON, general contractors, of Milwaukee.

Plans have been submitted by several architects to Dr. H. Duemmling, Pres. Lutheran Home for Aged, Wauwatosa, Milwaukee County, for proposed $50,000 asylum building, three stories high, brick and stone construction. Work will probably begin on foundation in October, 1909, superstructure, spring of 1910.

Ferry & Clas, Archs., Milwaukee, have completed plans for superstructure for the $250,000 addition to the Milwaukee Public Library and Museum, Eighth and Ninth Sts. and Grand Ave. Bids will be called for soon. Addition will conform to character of present building in material and style, four stories high, 117 × 236 ft., of sandstone construction. Foundations completed.

SHENANDOAH, IOWA.—James Knox Taylor, Supervising Arch., Washington, D. C., has awarded contract for the construction of a post-office at Shenandoah to CHARLES W. GINDELE CO., Chicago, at $46,100; time to complete, May 20, 1910.

COUNCIL BLUFFS, IOWA.—The Supervising Architect of the Treasury, Washington, D. C., has awarded contract for the construction of a post-office at Council Bluffs, Iowa, to the GENERAL CONSTRUCTION CO., of Milwaukee, Wis., at $99,650.

ST. PAUL, MINN.—John Ireland, Archbishop, city, has awarded the contract for constructing the exterior granite walls of the new Catholic cathedral, as high as the dome to the P. M. HENNESSY CONSTRUCTION CO., 503 N. Y. Life Bldg., city, at $177,000.

The Board of School Inspectors, C. W. Gordon, Pres., has awarded contract for the construction of the Mechanic Arts High School, according to plans of Rankin, Kellogg & Crane, Philadelphia, to J. H. NICKEL, 614 Endicott Bldg., at $274,767. The board also awarded contract for the general construction of the West Side High School, according to plans of E. J. Donohue, city, to E. J. DALY, 38 West Lawson St., city, at $93,000. Both structures are three stories and strictly fireproof.

ST. LOUIS, MO.—We are officially advised that the contract for the municipal courts building for the city of St. Louis has been awarded to the C. L. GRAY CONSTRUCTION CO., of St. Louis, at about $596,000.

MINNEAPOLIS, MINN.—Walter A. Swasey, Arch., 40 West 33d St., New York, has been selected to prepare plans for the Shubert Theater in Minneapolis. It is probable that a Minneapolis architect will be chosen to supervise the actual construction of the building, which is to stand on Seventh St., north of Hennepin Ave.

GONZALES, TEX.—Bids were received as follows on Aug. 5 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office at Gonzales, Tex.: S. Hodges, Lockhart, Tex., $42,150; J. E. McKnight, Hallettsville, Tex., $42,324; King Lumber Co., Charlottesville, Va., $[illegible]375; L. R. Wright, Dallas, Tex., $41,2[illegible]; Henry Kane, San Antonio, Tex., $44,250.

*SUPPLY, OKLA.—Bids are asked by the State Board of Public Affairs until noon, Sept. 14, for the complete installation of a heat and power plant at the Hospital for the Insane, at Supply, in strict accordance with plans and specifications prepared and furnished by Layton, Smith & Hawk, Archs., Oklahoma City, Okla., and to be erected under the supervision of the State Board of Public Affairs, the conditions of addenda to the specifications and modifications of the plans, as well as the terms of the proposals and contract. Plans and specifications may be seen at the office of E. G. Newell, Supt. Supply, office of the State Board of Public Affairs, the office of the Architect of the State Board of Public Affairs, Guthrie, Olka., and the office of Layton, Smith & Hawk, Archs. Bidders shall include in their proposal, a 2-ton ice-making plant to be installed in said building, plans and specifications for which shall accompany the proposal.

DENVER, COLO.—The Trustees of St. Paul's Church have purchased property at Sherman St. and 20th Ave., where the new Institutional Church will be built at once, the building to cost $50,000.

MONTESANO, WASH.—The County Commissioners have accepted plans by Watson Vernon, of Aberdeen, Wash., for a court-house and jail to cost $125,000 and $40,000, respectively.

TACOMA, WASH.—The Northern Pacific Ry. Co. has awarded contract for its reinforced-concrete, fireproof passenger station here to the HURLEY-MASON CO. Cost, $100,000. Reed & Stem, St. Paul, Minn., are Archs.

SEATTLE, WASH.—S. Melvin Mishy will erect a 4-story reinforced-concrete and tile fireproof storage building, to cost $46,000. Okey J. Gregg is Arch., 853 Empire Bldg.

It is estimated that plans are being made by the management of the Seattle College, a Roman Catholic school for boys, at Broadway and Madison St., to sell the school site, covering the entire block, the proceeds to be used to erect a more commodious and complete structure at 18th and Aloha Sts. The proposed new school will cost $500,000.

BELLINGHAM, WASH.—Plans for the First National Bank building have been submitted by William Cox, Arch., of Bellingham. Estimated cost, $55,000.

BROGDEN, ORE.—J. E. Tourtelotte & Co., of Boise, Idaho, are drawing plans for a 40-room hotel to be erected at this town by D. W. Brogden, of Vale, Ore.

PORTLAND, ORE.—The Dammeier Investment Co., of this city, has purchased a tract of land for the erection of three 4-story brick apartment houses, to cost not less than $40,000 each.

R. E. Kingsbury will proceed at once with the erection of two 5-story apartment houses on the site which he purchased on Fort St., south of Washington St. The structure to be erected will cost about $50,000 each.

CORVALLIS, ORE.—J. V. Bennes, of Portland, Ore., architeet for the new college structures to be erected at Corvallis, is preparing plans at present for a $50,000 agronomy building.

HOLTVILLE, CAL.—Bonds for $65,000, for the purpose of erecting a Union high school building in Holtville, have been voted by the Holtville Union High School district. A. Seat is Clk.

SAN DIEGO, CAL.—The Western Supply Co., of this city, has taken out a permit to erect a $60,000 warehouse. B. McKenzie is Pres.

Plans for State Normal Training School at San Diego have been completed by the State Engineer, who will advertise for bids soon for construction of building. The State Legislature has appropriated $55,000 which is now available.

RENO, NEV.—The Board of County Commissioners has instructed the County Clerk to advertise for plans for the proposed court-house, the building to cost not more than $120,000. A premium of $3,600 will be given for the plans accepted. Premiums of $400 and $200 will be given for the second and third best plans. The bids are to be opened on Aug. 23.

WALLACE, IDAHO.—OLSEN & JOHNSON, contractors, have been awarded contract for the construction of the Cowoll & Dixon block. Cost, $140,000. It will be a 5-story affair and will be constructed of concrete.

HAGERMAN, IDAHO.—Wayland & Fennell, Archs., of Boise, Idaho, are drawing plans for a $50,000 hotel for the Orchard Investment Co.

MOSCOW, IDAHO.—James Knox Taylor, Supervising Arch. Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Moscow to the INTERSTATE CONSTRUCTION CO., Ltd., Saginaw, Mich., at $79,[illegible].

PORTAGE LA PRAIRIE, MAN.—The Provincial Government is having plans prepared for an addition to the Home for Incurables to cost $50,000. Hon. Robert Rogers is Minister of Public Works, Winnipeg, Man.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Allen Hazen, 103 Park Ave., New York, it is announced, has completed and presented to the Portland Water District his report on the water supply system of Portland, recommending doubling the capacity of the system, including the construction of a 48-in. steel pipe, a distance of 16 miles, to Sebago Lake, in addition to present mains. Estimated cost, approximately $1,000,000.

EASTHAMPTON, MASS.—At a recent town meeting it was voted to appropriate $38,000 for improvements to the water-works, including the increase in the capacity of the reservoir. W. C. Tannant is Town Engr.

*FRAMINGHAM, MASS.—Bids are asked until 4 p. m., Aug. 23, by the Board of Water Commissioners for laying about 18,500 ft. c.-i. water pipe. H. L. Davenport, Secy.

WINTHROP, MASS.—The Water Commission will erect a new water tower on Cottage Hill. Whitman & Howard, Boston, are the Engrs. Tower will have capacity of 1,000,000 gals.

WESTMINSTER, MASS.—Contract for dam to be constructed by the Nashua Reservoir Co. across the Whitman River in Westminster, has been awarded to MICHAEL LITTLE & CO., of Leominster. The work will be begun at once under the direction of Guy H. Chase, of Parker, Bateman & Chase, of Clinton, Mass., who made surveys and plans.

GREENWICH, CONN.—Bids will be received by Albert B. Hill, Engr., 100 Crown St., New Haven, until Aug. 24, for raising the Putnam dam and work appurtenant thereto for the Greenwich Water Co.

NIAGARA FALLS, N. Y.—The BUFFALO DREDGING CO. was awarded the contract of constructing the intake crib and furnishing and laying the intake pipe for the new water plant, by the Board of Water Commissioners, for $74,850; the amount is a slight increase over the company's first bid, but this is accounted for by the necessity of using additional pipe in order to complete the work.

NEWBURGH, N. Y.—Contract for furnishing the 30-in. pipe for the new water main between Washington Lake and the city was awarded to the U. S. PIPE & FOUNDRY CO., of New York, at $22.23 per ton, and special castings 2½ cts. per lb. There are to be about 1,800 tons of iron pipe furnished, which is to extend a distance of about 11,000 ft.

BROOKLYN, N. Y.—Bids were opened on Aug. 4 at the office of the Bureau of Water Supply, Gas and Electricity for furnishing, delivering and laying water mains and removing existing water mains in Evergreen and Lee Aves. and other streets and avenues and furnishing and setting branches, valves, etc. The lowest bid was that of Rodgers & Hagerty, 41 Park Row, New York City, at $78,376.

LANCASTER, PA.—Bids will be received by the Water Committee, City Council, at office of J. H. Rathfon, City Controller, until Aug. 26 for constructing concrete dam across Conestoga River at pumping station of Lancaster water-works in Manheim Township. F. H. Shaw, 314 Breneman Bldg., Lancaster, is Engr.

CLOE, PA.—A large reservoir, from which water will be supplied to all shops and locomotives of the Buffalo, Rochester & Pittsburg R. R. Co., is to be built at a point near here. Preliminary work has been started on the construction of a temporary railroad from the main line to the site of the proposed reservoir to handle materials. The breast of the dam will be 20 ft. high, which will be sufficient to insure a lake that will cover about 25 acres, and contain several million barrels of water.

FROSTBURG, MD.—City has awarded contract to FULLER BROS., of Frostburg, to construct reservoir with capacity of 883,575 gallons. Cost, $8,300. William Harvey, Town Engr.

WASHINGTON, D. C.—Contract for installing two tubular boilers in the Dennison School, Washington, D. C., bids for which were opened on Aug. 2, has been awarded to the G. & W. MFG. CO., 26 Cortlandt St., New York.

CLARKSBURG, W. VA.—The Broad Oaks Development Co. has been incorporated with $10,000 capital stock by J. M. Coffman, C. W. Halterman, George L. Duncan, R. T. Lowndes and George W. Shuttleworth to construct water-works for Broad Oaks, a suburb of Clarksburg.

WILMINGTON, N. C.—Bids are asked by the Water-Works and Sewerage Commission until Aug. 20 for wells and pumps. Commission has prepared plans for rehabilitation and extension of water-works purchased some months ago. It is proposed to double present size of plant, lay 20-in. mains from pumping station, install new boiler and pump at pumping station, enlarge filtration plant, drill four wells equipped with pumps, etc. Hazelhurst & Anderson, Engrs., Atlanta, Ga., will supervise construction work.

CHESTER, S. C.—Bids were opened Aug. 3 and contracts have been awarded for work and material as follows: For furnishing and installing two wood tank gravity filters to the GREER FILTER CO., Philadelphia, Pa., for $2,750, and for furnishing and installing turbine pumps, motors, foot valves, gate valves and electrical equipment to JAMES McCARNON, for $4,000. James Hamilton, City Engr. Noted on July 29.

BATESVILLE, MISS.—Xavier A. Kramer, Magnolia, Miss., will prepare plans and specifications and supervise the construction of a water-works system for Batesville.

JACKSON, MISS.—Hamilton Johnson, Mgr. of the Water-Works, estimates the cost of installing a filtration system at the water-works at $100,000. Noted on July 29.

LYON, MISS.—PHILIP H. PORTER, Clinton, Ky., has been awarded contract by the Water Commissioners for reinforced-concrete reservoir with equipment. W. S. Bobo, Engr., Clarksdale, Miss.

MISSION RIDGE (Chattanooga post-office), TENN.—Mission Ridge Taxing District Commissioners, Robert P. Woodard, Pres., Miller Bldg., Chattanooga, has arranged with the Chattanooga City Water Co. for establishment of water-works system on Mission Ridge, water mains to be installed and standpipe erected. A pumping station will be installed at Ridgedale.

BROOKLYN HEIGHTS (Cleveland post-office), OHIO.—Bids will be received by H. F. Chester, Clk. Bd. Trus., Public Affairs, R. F. D. No. 3, until Sept. 2, for constructing water mains in several streets. J. B. Davis & Son, Village Engrs., 207 The Arcade, Cleveland.

MICHIGAN CITY, IND.—Bids will be received by the Board of Public Works until Aug. 24 for the purchase of 5,300 ft. 12-in. water pipe, 2,000 ft. 6-in., 1,000 ft. 4-in.; also 16 6-in. gages, 2 12-in. valves, 2 12-in. "T's," 6 cross pipes, 20 valve boxes and 10 tons of lead, to be used in extension of water mains and pipes.

COLUMBIA CITY, IND.—Bids are asked by the Common Council until Aug. 23 for improvements to municipal water-works and electric light plant. F. T. Schultz is Supt.

SHIRLEY, IND.—Bids will be received until Aug. 23 by the Board of Public Works for the construction of water-works. Cost, $25,000. George C. N. Wallace, 420-426 Eighth St., Anderson, Ind., is Engr., and B. L. Burkett, Shirley, is Pres. of the Board.

HANCOCK, MICH.—Plans and specifications for the Florida Water Co. have been completed by D. M. Scott, Engr., and are now ready to be submitted to the directors.

ANTIOCH, ILL.—Bids will be received by L. M. Hughes, Vil. Clk., until Aug. 21 for constructing a water tank. E. H. Ames, Pres.

BLOOMINGTON, ILL.—Bids will be received by the Board of Local Improvements, at office of City Engineer, until 2 p. m., Sept. 2, for constructing water mains in portions of various streets. R. L. Carlock, Chn. Bd.

CHICAGO, ILL.—Bids were received on July 29, by J. J. Hanberg, Comr. Public Works, for two 8 × 20-ft. water filters of the horizontal pressure type in the Rogers Park pumping station, Kenilworth Ave. and Lake Michigan. Lowest bid was submitted by Gindale Bros., 112 Clark St., at $4,275.

MILWAUKEE, WIS.—Bids will be received by the Board of Public Works until 10.30 p. m., Aug. 20, for test borings for the proposed water pipe under the Milwaukee River. Chas. J. Poetsch, Chn. Bd.

*MONTICELLO, IOWA.—Bids will be received by the city until 8 p. m. Aug. 30, at the City Hall, for furnishing materials and constructing an addition to the present water-works reservoir, addition consisting of reinforced concrete, and being 35 ft. high and 53 ft. in diameter.

CLARKSVILLE, IOWA.—Bids will be received by the Town Clerk until noon, Aug. 23, for the construction of water mains. F. M. Forney, Mayor.

TYLER, MINN.—Bids are asked by C. D. Christenson, Vil. Clerk, until 4 p. m., Aug. 27, for changing and improving the water-works system and constructing an electric-light plant. About 65 HP. will be generated and a concrete reservoir and brick building will be constructed. Cost, $25,000. Oscar Claussen, St. Paul, Minn., is Consult. Engr.

SAN JUAN, TEX.—The Rio Grande Irrigation Co. proposes to build about 70 miles of canals in Hidalgo County. A. W. Roth is Pres., San Juan; E. B. Gore, San Juan, is Engr. Estimated cost, $4,000,000.

SEYMOUR, TEX.—The O'Neill Engineering Co., of Dallas, Tex., is preparing plans for water-works and sewer system to cost $35,000. L. A. Downell, City Secy.

HARTSHORNE, OKLA.—Bids will be received by F. C. Savage, Mayor, and City Council, at office of J. D. Patterson, City Clk., until 8 p. m., Sept. 13, for constructing a system of water-works.

HYDRO, OKLA.—Bids will be received by Roy M. Felton, Town Clerk, until Aug. 20, for the construction of water-works and an electric-light plant from plans of Burns & McDonnell, of Kansas City, Mo. Estimated cost, $25,000.

*HENRYETTA, OKLA.—Bids will be received until 8 p. m., Sept. 9, by the Light and Water Commissioners of Henryetta for furnishing material and constructing water-works. Details given in advertisement in this issue. Noted on July 22.

BOULDER, COLO.—The Eastern Colorado Power Co. is planning to enlarge its irrigation project, six miles northeast of this city. It is proposed to raise both dams 5 ft., giving the two reservoirs a combined capacity of 744,052,000 cu. ft. of water. The cost of the work is estimated at $250,000.

HOT SULPHUR SPRINGS (Sulphur Springs post-office), COLO.—Bids will be received by J. R. Palmer, Town Recorder, until Sept. 7 for the construction of a complete system of water-works.

SEATTLE, WASH.—Bids are asked until 11 a. m., Aug. 31, by Capt. E. C. Long, Const. Q. M., U. S. A., Seattle, for constructing an addition to the water supply system at Fort Casey, Wash.

MOUNT VERNON, WASH.—The Skagit Valley Water Company proposes to construct water-works to cost about $200,000. The company will do its own construction work. Sidney Smith, Pres.

IONE, WASH.—The Ione Water & Power Co., incorporated, with a capital of $50,000, will construct water-works. Charles P. Mosey, Pres., Newport, Wash.; W. G. Murry, Secy., Ione.

ST. HELENS, ORE.—Citizens recently voted $40,000 for a municipal water system.

VALLEJO, CAL.—Arthur Noyes, City Engr., estimates the cost of constructing a new reservoir, with a capacity of 12,000,000 gals., at $30,000.

SAN FRANCISCO, CAL.—Bids were received by the Board of Public Works on Aug. 6 as follows for the construction of five fire cisterns in the Mission: American Construction Co., $44,045; Cotton Bros. Co., $36,695, Warren Improvement Co., $34,490; Healy-Tibbitts Construction Co., $32,760; Keystone Construction Co., $30,650.

MONTEREY, CAL.—Bonds to the amount of $150,000 have been sold to be used for improvements to water-works and sewer system. Contracts will be let at different times during the next six months. H. D. Severance, City Engr.

MONTREAL, QUE.—Bids are asked by the City Clerk until noon, Sept. 14, for enlarging city aqueduct, by widening and deepening the same on a length of about 27,300 ft. The work comprises about 1,175,000 cu. yds. of earth excavation and about 400,000 cu. yds. of rock excavation, also the formation of the slopes and banks of the widened aqueduct, the transporting to a distance of excess of excavated material, the construction of syphon culverts, the construction of dry stone wall lining in the slopes, etc. George Janin, Supt. Montreal Water-Works.

LONDON, ONT.—Plans have been approved by the Provincial Board of Health for an extension of the water system of London.

*TORONTO, ONT.—Bids are asked until noon, Oct. 14, for number of turbine pumps. Details are given in the advertisement in this issue.

VERA CRUZ, MEX.—Surveys have just been completed for the construction of a pipe line from the Jamapa River to the city of Vera Cruz, a distance of 26 kilometers, which will furnish Vera Cruz with its water supply. The cost of construction will be about $2,500,000, which sum has been appropriated by the Vera Cruz City Council. Work on the new line will begin at once and will be finished before the first of the year. At the Jamapa River will be constructed two reservoirs, and two kilometers out of Vera Cruz will be installed a large filter.

WEYBURN, SASK.—The city has passed estimates for water-works to cost $75,000. H. N. Murphy is interested.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

AUGUSTA, ME.—Bids are asked until 10 a. m., Aug. 20, by Henry F. Hill, City Engr., for the construction of sewers in High, Wyman, Capitol, Union and Howard Sts.

BOSTON, MASS.—THE GEORGE M. BYRNE CO., 79 Milk St., has been awarded contract at $18,170 for constructing sewers in various streets. Guy C. Emerson is Supt. of Streets.

BEDFORD, N. Y.—The Board of Managers of the New York State Reformatory for Women at Bedford has awarded to the NEW YORK SEWAGE DISPOSAL CO., New York, the contract for constructing a new sewage disposal plant at that institution, at $5,950. F. B. Ware is State Arch., Albany.

NEW YORK, N. Y.—Bids were received as follows on Aug. 12 by Louis F. Haffen, Pres. Bronx Boro., for constructing a sewer and appurtenances in West 176th St., between Sedgwick Ave. and Undercliff Ave., and south on Undercliff Ave. from Washington Bridge: William Settler, $12,715; F. V. Sullivan Contracting Co., $12,537; Hanover Contracting Co., 215 W. 125th St., $13,995; Melrose Contracting Co., $15,238; E. M. Lynch, $12,484; Haggerty Contracting Co., 2459 Davidson road, $16,680; Sealey Contracting Co., $12,927; J. J. Huiduven, $12,952; Alamo Contracting Co., 215 W. 125th St., $14,175; Wakefield Contracting Co., 39 E. 222d St., $12,988; P. T. Brennan, $12,780; Briggs & McLaughlin, $14,318.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Bronx Boro, until 11 a. m., Aug. 24, for rebuilding the sewer in Hunts Point Road, between Ryawa Ave. and the northerly line of Payne Ave., and in Whittier St., from Hunts Point Road to and including Manhole No. 23.

BUFFALO, N. Y.—Government plans for lowering the city sewer outlet in Black Rock Harbor have been received by Francis G. Ward, Comr. Pub. Wks. These call for the completion of the work by July 1, 1910. Estimated cost, about $150,000. The sewer will be lowered about ten ft., making the outlet about 27 ft. below mean water level.

*RAHWAY, N. J.—We are officially advised that bids were received by the Common Council, on Aug. 3, for the construction of 4,300 ft. of vitrified tile pipe sewers, with laterals, manholes and basins, sizes 10-in. to 30-in. JOHN F. KERWIN & CO., New Brunswick, N. J., $6,784 (awarded contract); John McNabb, East Bound Brook, N. J., $7,446; N. A. Palmer, Elizabeth, N. J., $7,595; Daniel Donivan Co., Bayonne, N. J., $8,217; Valentine & Zarillo & Co., Orange, N. J., $8,378; Monmouth Contracting Co., Red Bank, N. J., $9,864; John Hanlon, Philadelphia, Pa., $9,902; H. L. Harrison, Newark, N. J., $9,967.

TRENTON, N. J.—John O. Gretton, Chn. Sewage Disposal Comn., has presented a report to the Common Council on sewage disposal plant for the city. He estimates the total cost to equip a plant at $600,000, and about $15,000 a year for maintenance. The plans include a pumping station, to be located in the vicinity of the outlet of the existing sewer system, to cost $60,000, force mains to carry off the refuse from the pumping station to filter beds, $100,000, septic, or sedimentation tanks to be located on high ground, not more than a mile below the pumping station, $150,000; sprinkling filter plant and appurtenances, $280,000; land, $10,000.

WASHINGTON, N. J.—The city has voted to install a sewage disposal plant to remove one source of pollution of the Delaware River from which this city takes its drinking water. The plans under which Washington will build are those which have been approved by H. N. Herbert, Chief of the Sewerage Bureau, State Board of Health. Provision is made under the plant for an expansion of the town, so that in future when there has been an increase in population, the system will keep pace with the growth of the place.

TAYLOR, PA.—Bids are asked by the Town Council until 8 p. m., Aug. 24, for the construction of a lateral sewer in the Fourth Sewer District, known as the Atherton and South Main Sts. sewers. William Coombe is Boro. Clk.

WASHINGTON, D. C.—Bids are asked by the Districts Commissioners until 2 p. m., Aug. 23, for furnishing terra cotta sewer pipe and T branches for use during fiscal year ending June 30, 1910.

Bids are asked by the Commissioners of the District of Columbia until noon, Aug. 30, for the construction of service sewers.

NEWBERRY, N. C.—Bids were received on Aug. 10 by the Commissioners of Public Works for the extension of sewerage and water systems. The bids follow: Walter & Wagner, $36,239, 6 mos.; J. W. Gurley & Co., $42,018, 9 mos.; Bowe & Page, $34,623, July 1, 1910; Berghous & Moffit, $39,080, Sept. 1, 1910; McKay Engineering Co., $38,745, June 1, 1910; George W. Waring, $36,865, April 1, 1910. Wilson, Sompayrac & Urquhart, Columbia, S. C., are Consulting Engrs.

FLORENCE, S. C.—The Sewerage Commissioners, H. K. Gilbert, Chn., have selected H. A. Jaudon, Savannah, Ga., as engineer to prepare plans and specifications and supervise the construction of the sewerage system. Bonds for $65,000 have been voted.

NEW DECATUR, ALA.—The City Council has passed an ordinance providing $18,000 for the construction of a sewer system. W. A. Calla is City Engr.

GRENADA, MISS.—Bids were opened on Aug. 2 by John P. Jones, City Clk., for constructing a sewer extension. Contract has been awarded to PHILIP H. PORTER, of Clinton, Ky.

FRANKLIN, TENN.—We are officialy advised that Granberry Jackson, Consulting Engr., Mount Pleasant, Tenn., has been engaged by the city to prepare plans and supervise the construction of a system of sanitary sewers and extension to the present gravity water-supply system. Bids will be asked probably about Oct. 1. Bonds for $35,000 have been voted for this improvement.

HOPKINSVILLE, KY.—Contract for constructing a septic tank on the grounds of the insant asylum, bids open on Aug. 3, has been awarded to the MEACHAM CONTRACTING CO., of Hopkinsville. Thomas W. Gardner is Supt.

LEXINGTON, KY.—C. C. MILLER & CO., of Lexington, have secured contract to construct the North Limestone St. sewer, extending 3,500 ft. Joseph Melvin & Co., of Lexington, are the lowest bidders for a sewer on Mill St.

LOUISVILLE, KY.—Bids for the construction of Sect. B of the Western Intercepter, Contract 49, were opened by the Commissioners of Sewerage on Aug. 6. Contract has been awarded to T. B. JONES & CO., of St. Louis, Mo., at about $50,000. The work will consist mainly of building an unreinforced concrete sewer 3 ft. 6 ins. and 5 ft. in diameter, total length about 4,000 ft., and from 12 ft. to 25 ft. deep, including about 1,875 cu. yds. of concrete.

*LOUISVILLE, KY.—Bids will be received by the Commissioners of Sewerage (W. C. Nones, Chn.) until Aug. 27 for constructing South-Louisville branch-section C, Contract 51. J. B. F. Breed is Ch. Engr., Louisville. Harrison P. Eddy, 14 Beacon St., Boston, Mass., is Consulting Engr. Advertised last week.

WARREN, OHIO.—Bert. C. Smith, City Engr., is preparing plans for about 1¼ miles of sanitary sewers for the northwestern section of city to include 12-in. tile, with 9 and 10-in. laterals.

CLEVELAND, OHIO.—Bids will be received by the Board of Public Service until noon, Aug. 20, for the construction of sewers in various streets, avenues and courts.

EAST CLEVELAND, OHIO.—Bids will be received until Aug. 24 by K. F. Lees, Village Clk., 309 Williamson Bldg., Cleveland, for constructing sanitary sewers in Collinwood Road and Euclid Ave. The F. A. Pease Engineer Co. are Engineers, 931 Williamson Bldg., Cleveland.

NORWOOD (Cincinnati post-office), OHIO.—Bids will be received by the Board of Public Service, H. D. Armstrong, Clk., until Aug. 23 for constructing sanitary sewers in sewer district No. 2. James A. Stewart is Engr., 1112 Traction Bldg., Cincinnati.

CLEVELAND, OHIO.—Bids are asked until noon, Aug. 19, by E. H. McIntosh, Secy. Bd. Pub. Ser., for constructing sewers in portions of 22 streets, separate contract for each street.

WESTVILLE, IND.—LEO GROSS, Wanatah, Ind., has been awarded contract, at $6,940, for the construction of a drain here. Jared Kardner is Constructing Comr.

PORTAGE, WIS.—Bids are asked by the city until noon, Sept. 1, for the construction of a sanitary system of sewers, consisting of 66,574 ft. of vitrified pipe, 96 concrete manholes, 50 lampholes, inverted siphon and disposal plant.

GRAND RAPIDS, WIS.—Bids are asked by the Board of Public Works, Frank Pomainville, Chn., until Aug. 20 for the construction of a 15-in. sewer and a 4-in. water main in Elm St., from Witter to

Dewey Sts., approximately 1,320 ft. of each, and for a 20-in. sewer in Dewey St., from Elm St. to Wisconsin River, approximately 920 ft.

DES MOINES, IOWA.—The J. W. TURNER IMPROVEMENT CO., Des Moines, was awarded contract on Aug. 6 by the city for building the Woodland Ave. sewer system, three miles in length, at \$2.14⅞ per lin. ft. O. P. HERRICK was awarded the contract for the Euclid Ave. system.

ST. PAUL, MINN.—L. W. Rundlett, City Engr., has estimated the cost of constructing sewers in Cretin and Lincoln Aves. and other streets at \$30,574, on Inglehart Ave. at \$3,690, and on Otto Ave. at \$6,090.

*MARION, KAN.—Bids will be received by Thomas W. Brown, City Clk., until 8 p. m., Aug. 24, for furnishing material and constructing sewers in accordance with plans and specifications on file in the office of the City Clerk and of J. W. Mavity, Engr. Approximate quantities are as follows: Main intercepting sewer, 2,312 ft. of 18-in., 1,580 ft. of 15-in., 275 ft. of 8-in. pipe, 15 manholes; district No. 4, 7,242 ft. of 8-in., 3,037 ft. of 10-in. pipe, 18 manholes and nine flush tanks; district, 10,988 ft. of 8-in., 1,813 ft. of 10-in., 1,124 ft. of 12-in. pipe, 31 manholes and 20 flush tanks.

NORFOLK, NEB.—Bids will be received by the Mayor and Council until noon, Aug. 30, for the construction of sewer district No. 13, consisting of about 1½ blocks; sewer district No. 15, consisting of about 1¼ blocks. Plans and specifications on file with the City Clk.

CHADRON, NEB.—The G. M. KING CONSTRUCTION CO., of Des Moines, Iowa, has secured the contract, at \$20,466, for the construction of a system of sanitary sewers for Chadron. G. E. Marriott is City Clk.

ST. LOUIS, MO.—The Board of Local Improvements, J. A. Hooke, Engr., will prepare plans for the construction of a reinforced concrete sewer system. Estimated cost, \$5,500,000.

MONTICELLO, ARK.—The city has awarded contract to GLENN & RICH, Webb City, Mo., for the construction of seven miles of 8 to 12-in. pipe sewers, with two purification plants. Walter G. Kirkpatrick is Engr., Jackson, Miss., and will supervise construction.

HOUSTON, TEX.—F. L. Dormant, Consulting Engr. of Houston, has prepared and submitted to the City Council plans and specifications for sanitary sewers to be constructed in the First and Sixth Wards. H. B. Rice is Mayor.

CHANDLER, OKLA.—Contract has been awarded, bids opened by the city on Aug. 3, to W. W. COOK & SON, of Wagoner, Okla., for the construction of the sewer system here at \$17,686. Charles E. Cheney is City Engr. List of bidders noted last week.

TUCUMCARI, N. M.—A sewer system is to be installed at this place. W. P. Bullock has been employed to make a survey and give an estimate for the proposed work, for which bonds will be voted.

WENATCHEE, WASH.—Contract has been awarded by the city to BALL & McNERNEY at \$6,402 for the construction of the Wenatchee Ave. sewer.

EUGENE, ORE.—Bids were opened on Aug. 3 by the Council for the construction of the proposed addition to the sewer system. The bids were: Soleim & Hall, \$17,430; McClain & McArthur, \$15,865; A. Prenske, Cottage Grove, \$18,344.

SAN FRANCISCO, CAL.—The lowest bid opened on Aug. 6 by the Board of Public Works for the construction of sewers in the Bayview district was that of the Contra Costa Construction Co., Oakland, Cal., at \$70,871.

TURLOCK, CAL.—W. J. SCHMIDT, of Berkeley, Cal., has secured the contract for constructing the new sewer system, including the building of a septic tank, at \$23,840. Other bids were as follows: W. F. McBride, Los Angeles, \$23,999; Wolf & Anthony, Monterey, \$27,000; Murray Vincent Co., Turlock, \$24,777; William Heafy Co., Oakland, \$27,228.

OAKLAND, CAL.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 25, for the construction of a sewer in a portion of Washington St. Walter B. Fawcett is Secy.

STREETS AND ROADS.

(** denotes that this work is advertised in Engineering News.*)

WILLIMANTIC, CONN.—Plans and specifications will be prepared for the construction of a sidewalk system for this city which will include several blocks in the business section.

HARTFORD, CONN.—The State Highway Commissioner has awarded contract for 1,700 lin. ft. of macadam-telford road in the town of Trumbull, including six 18-in., five 12-in., and six 15-in. tile culverts, to the B. D. PIERCE, JR., CO., Bridgeport, at \$1.61 per lin. ft. for macadam and \$2.30 for telford.

HARTFORD, CONN.—Bids for the construction of state road work will be received at the office of the State Highway Commissioner until 2 p. m., Aug. 23, for the following: Town of East Lyme, 5,840.5 lin. ft. gravel, including six 24-in., one 15-in. and one 18-in. tile culverts, on the Flanders road; town of Old Lyme, 13,687 lin. ft. gravel, including two 18-in. and five 24-in. tile culverts and two concrete arch culverts, on the Flanders road; city of Ansonia, 5,510 lin. ft. macadam.

RENSSELAER, N. Y.—The City Council has decided to pave Harrison Ave. from Broadway to Third St. and Second St. from Partition to John Sts.

BUFFALO, N. Y.—The Barber Asphalt Paving Co., 880 Ellicott Square, has submitted the lowest bid for paving a portion of Elmwood Pl., at \$26,300 for tar macadam base, and \$31,300 concrete base. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Aug. 24, by Louis F. Haffen, Pres. Bronx Boro., for paving with asphalt blocks on concrete foundation and repaving with asphalt blocks on same foundation the roadways of several streets; also for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Gun Hill Road, from Jerome Ave. to Mosholu Parkway.

Bids are asked by the Park Board until 3 p. m., Aug. 26, for furnishing all the labor and materials for constructing a block asphalt pavement on the roadway of the bridge over the tracks of the New York, New Haven & Hartford R. R., on Bronx and Pelham Parkway, Boro. the Bronx.

NEW YORK, N. Y.—Bids were opened on Aug. 12 by Louis F. Haffen, Pres. Bronx Boro., for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in 230th St., from Bailey Ave. to Riverdale Ave.: F. V. Smith Contracting Co., 147 E. 125th St., \$110,110; J. C. Rodgers, Jr., Baychester, \$87,259; C. W. Collins, 91 E. Fordham road, \$82,785; McDonald & Barry, Tiebout Ave. and 183d St., \$74,897; D. W. Moran, 562 Burnside Ave., \$79,406; J. B. Malatesta, 3169 Jerome Ave., \$76,962; Haggerty Contracting Co., 2459 Davidson Ave., \$98,596.

NEW YORK, N. Y.—Bids were received on Aug. 12 by Louis F. Haffen, Pres. Bronx Boro., for (a) paving with asphalt blocks on a concrete foundation the roadways of Park Ave. West, from East 175th St. to East 178th St.; (b) Hoe Ave., from Freeman St. to East 172d St.; (c) Fulton Ave., from 170th St. to 175th St.: (a) Barber Asphalt Paving Co., 30 Church St., \$14,647; Hastings Paving Co., 25B road St., \$14,708; (b) Barber Asphalt Paving Co., \$14,413; Hastings Paving Co., \$14,520; (c) Barber Asphalt Paving Co., [illegible]; Hastings Paving Co., \$41,243.

NEW YORK, N. Y.—Bids are asked by the Park Board until 3 p. m., Sept. 2, for furnishing all labor and materials for resurfacing with asphalt the old walks in Fort Green Park, Boro. Brooklyn.

*FORT TOTTEN, N. Y.—Bids are asked by the Constructing Quartermaster, U. S. A., until 11 a. m., Sept. 10, for about 2,644 cu. yds. excavation, 667 sq. yds. macadam roads, 5,000 sq. ft. concrete walk and 665 ft. of drain at Fort Totten.

*ALBANY, N. Y.—The bids received by the State Highway Commission on Aug. 13 for the repair and resurfacing of state highways in Herkimer, Jefferson, Clinton, Saratoga, Rensselaer and Washington Counties were: Repair contract No. 8, Little Falls-Dolgeville road No. 133, town of Manheim, Herkimer County: Amend Concrete Building Co., 80 State St., Albany, \$5,704; NEWPORT CONSTRUCTION CO., Newport, N. Y., \$5,532 (awarded contract); Bellew & Merritt, Tuckahoe, N. Y., \$5,800. Repair contract No. 9, Burrs-Mills road No. 147, towns of Rutland and Watertown, Jefferson County: J. M. Dunphey, Canton, N. Y., \$2,118. Repair contract No. 10, Redwood-Alexandria Bay road No. 182, section 1, town of Alexandria: STEWART-KERBAUGH-SHANLEY CO., 30 Church St., New York, \$2,800 (awarded contract); Buckley Construction Co., Plattsburgh, N. Y., \$14,000. Repair contract No. 11, Pierpont Manor-Ellisburg road No. 184, town of Ellisburg and State Road No. 185, town of Lorraine: J. H. CONNERS, Fulton, N. Y., \$2,084 (awarded contract); Buckley Construction Co., Plattsburgh, N. Y., \$10,000. Repair contract No. 12, Watertown-Sacketts Harbor-Henderson road No. 181, section 1, town of Hounsfield, and Depot Road No. 186, town of Lyme: BUCKLEY CONSTRUCTION CO., Plattsburgh, N. Y., \$14,700 (awarded contract). Repair contract No. 13, Plattsburgh-Keeseville road No. 56, section 1, town of Plattsburgh; Plattsburgh-Keeseville road No. 137, section 2, towns of Plattsburgh and Peru, and Plattsburgh-Mooers road No. 138, section 1, towns of Beekmantown and Chazy, Clinton County: Buckley Construction Co., Plattsburgh, N. Y., \$41,889; Imperial Road Co., of Westchester, N. Y., \$38,823; Peter F. Connelly, 70 Perkins St., Jamaica Plain, Boston, Mass., \$43,124; SPELLMAN & OLIVER CO., Chatauqua, N. Y., \$35,582 (awarded contract). Repair contract No. 14, Waterford road No. 39, section 1, town of Waterford, and Waterford road No. 59, section 2, town of Half Moon, Saratoga County: Buckley Construction Co., Plattsburgh, N. Y., \$22,113; F. K. Buckminster, Albany, \$18,394; Imperial Road Co., Westchester, N. Y., \$18,112; Parker & Beebe, Waterford, N. Y., \$20,382; BARBER ASPHALT PAVING CO., Utica, N. Y., \$17,271 (awarded contract); John W. Flynn, Waterford, \$17,302. Repair contract No. 16, Hoags Corners road No. 55, town of Nassau, Rensselaer County: JOHN W. FLYNN, Waterford, \$3,773 (awarded contract); John Crusarrio & Co., 22 Fulton St., Albany, \$4,097; Charles H. Flanigan, Albany, \$4,424. Repair contract No. 17, Shunpike road No. 97, town of White Creek, Washington County: Buckley Construction Co., Plattsburgh, N. Y., \$15,500. Repair contract No. 18, Glens Falls-Saratoga road No. 58, section 1, town of Moreau, Saratoga County: GAYLOR & FOX, Saratoga Springs, N. Y., \$13,810 (awarded contract). S. Percy Hooker is Chn. Comn.

SYRACUSE, N. Y.—Contract for paving Burnet Ave. was awarded by the Board of Contract and Supply on Aug. 2 to C. J. SULLIVAN, 126 S. Clinton St., at \$86,778, for Jamestown block, the lowest bid submitted. The new pavement will be 1½ miles in length, extending from Catherine St. east to the city line. Other paving contracts awarded were: To F. J. BAKER, University Block, for paving Plum St. with asphalt, from Wilkinson St. to Belden Ave., at \$10,853; and to SAMUEL BONN, 654 Burnet Ave., for paving with Pennsylvania Clay Co. block, Laurel St., from Fulton to Franklin Sts., at \$3,048.

JAMESTOWN, N. Y.—WARREN BROS. have been awarded contract, at \$26,413, for paving with bitulithic East Fourth St., from Main St. to East Second St.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., Sept. 1, by Bird S. Coler, Boro. Pres., for repairing with asphalt block pavement and asphalt pavement on concrete foundation the roadways of several streets, constructing cement sidewalks, and reconstructing bridge across Gerrettson's Creek at Ave. U.

LONG BRANCH, N. J.—The Monmouth County Board of Freeholders has accepted plans and specifications for constructing about three miles of gravel road from Cedar and Norwood Aves. to the Eatontown Boulevard through the village of West Long Branch. Estimated cost, about \$12,000.

MORRISTOWN, N. J.—Bids were received on Aug. 6 by the Aldermen for laying vitrified brick pavement on Washington St., as follows: Wormser, Goodman Construction Co., \$1.17 per ft. straight axed curb, \$1.66 curved axed curb, 50 cts. header curb and \$2.49 per sq. yd. vitrified brick pavement, 60 days. Atlantic Contracting & Construction Co., 88 cts. straight curb, \$1.25 curved, 60 cts. header and \$2.35 pavement, 60 days; Nickolas Marinaro, 99 cts. straight, \$1.50 curved, 30 cts. header and \$2.49 pavement; Fred S. Smith, \$1.30 straight; \$1.90 curved, \$1.10 header and \$2.94 pavement; 25 days; Jersey Paving Corporation, 90 cts. straight, \$1.80 curved, 60 cts. header and \$2.40 pavement, 30 days.

*WESTFIELD, N. J.—Bids are asked by the Council until 8.15 p. m., Sept. 7, for improving Prospect St. from Broad St. to Dudley Ave. Lloyd Thompson is Town Clk.

HOBOKEN, N. J.—Bids are asked until 4 p. m., Aug. 25, by James H. Londrigan, City Clk., for improving Park Ave. between Seventh and Eleventh Sts.

PHILADELPHIA, PA.—Bids were received as follows on Aug. 14 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for paving pier "A" at the Philadelphia navy yard with vitrified brick: Lawler Bros. Construction Co., 13 Park Row, New York, \$61,300; American Paving & Construction Co., 211 South Ninth St., Philadelphia, \$35,000; Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, \$33,115; Thomas F. Deegan & Co., Betz Bldg., Philadelphia, \$34,285; Frank B. Sweeten, 111 Delaware Ave., Camden, N. J., \$31,024; Jas. H. Stitzer, 1201 Chestnut St., Philadelphia, \$21,435; Bolger & Cummins, Chelton Trust Bldg., Germantown, Pa., \$44,009.

WILMINGTON, DEL.—Bids are asked until noon, Aug. 24, by Francis A. Price, Highway Comr., for constructing 3.98 miles of macadam road.

CUMBERLAND, MD.—Bids are asked until Aug. 21 by the Street and Alley Committee for grading and paving Fayette, Paca, Johnson, Bedford and other streets.

WASHINGTON, D. C.—Bids were received as follows on Aug. 14 by the Commissioners of the District of Columbia for laying cement sidewalks in the district: Thomas R. Reilly & Co., Class A, \$1.12 per sq. yd.; B, \$1.12. James W. Bean, A, \$1.09; B, \$1.34. R. J. Beall Construction Co., A, \$1.045; B, \$1.225. Cranford Paving Co., A, 94.75 cts.; B, \$1.20. Lake Stone Co., A, 98 cts.; B, \$1.18. Also for crushing stone for filling in canal: Warren F. Brenizer Co., 93 cts. per cu. yd.; Cranford Paving Co., 80 cts. All bidders of Washington, D. C.

*WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, Aug. 28, for laying about 10,000 sq. yds. of cement sidewalks.

TACOMA, D. C.—Bids are asked by H. L. Pettus, Constructing Q. M., U. S. A., until noon, Aug. 31, for the construction of a concrete driveway and area with retaining walls, etc., at the Walter Reed Army General Hospital, Washington, D. C.

*NORFOLK, VA.—We are officially advised that bids were received by the Board of Control on Aug. 2, for regulating and paving with some smooth material, the following streets and avenues in the city, or parts thereof: Colonial, Pembroke Aves., Warren, Crescent, Bridge, Botetourt, Twelfth Holt Sts., Redgate Ave., Mowbray Arch East and Mowbray Arch West. Contracts were awarded as follows: Colonial Ave., bitulithic surface, to ATLANTIC BITULITHIC CO., at \$28,519; Holt St., asphalt block, to WASHINGTON ASPHALT BLOCK & TILE CO., at \$16,870; Botetourt St., wood surface, to U. S. WOOD PRESERVING CO., 29 Broadway, New York, at \$6,110; Redgate Ave., asphalt block, WASHINGTON ASPHALT BLOCK & TILE CO., at \$12,720; Twelfth St., wood surface, U. S. WOOD PRESERVING CO., at \$28,354; Mowbray Arch East, to same, at \$22,000; Mowbray Arch West, to same, at \$107,083. W. T. Brooks is City Engr.

RICHMOND, VA.—J. E. Folkes, of Richmond, is the lowest bidder at \$12,757 for constructing macadamized road from city limits for 3½ miles along Cary St. road. P. St. J. Wilson is State Highway Comr.

FORT MONROE, VA.—Contract for filling, grading, etc., of parade ground at Fort Monroe has been awarded to the ATLANTIC DREDGING CO., Philadelphia, Pa., at \$17,182.

MIDDLEBOURNE, W. VA.—Bids are asked until Aug. 26, by J. W. Duty, Clk. County Court, for paving 5,555 ft. of turnpike.

HUNTINGTON, W. VA.—Bids are asked until 2 p. m., Aug. 23, by the City Commissioners for grading, draining, curbing and paving with vitrified brick a portion of Smith St. John Coon is Comr.

GOLDSBORO, N. C.—BIGLER BROS., Mobile, Ala., have secured contract at 74 cts. per sq. yd., for 60,000 sq. yds. of sidewalk paving in this city. Bids were opened on Aug. 2.

ATHENS, TENN.—McMinn County has decided to construct 26 miles of road.

EUTAW, ALA.—The [illegible] has awarded contract to W. H. ZUBER, [illegible], Ala., for constructing 17,000 ft. of [illegible] sidewalk, curbs and gutters. Bids were [illegible] ed on July 31.

KNOXVILLE, TENN.—[illegible] C. CeCREARY, J. W. BORCHES and [illegible] E. BORCHES have secured contracts [illegible] nstruct various pikes in Cocke County. [illegible] ated cost, \$300,000.

NASHVILLE, TENN.—[illegible] Board of Public Works has awarded [illegible] wing contracts for construction of sid[illegible]: 15th Ave., UNCLE HIRAM ROOFI[illegible], at \$1.49 per sq. yd.; Ewing Ave., [illegible] VILLE ROOFING & PAVING CO., at [illegible] ½ per sq. yd.; Grand Ave., J. T. SOUT[illegible] TE, at \$1.46½ per sq. yd.; Eleventh [illegible] SOUTHERN ROOFING & PAVING CO [illegible] \$1.49 per sq. yd.; sidewalks and curb[illegible] on Monroe St. to same company, all of [illegible] ville. W. W. Southgate is City Engr.

LOGAN, OHIO.—We a[illegible] icially advised that the lowest bid subm[illegible] on July 27 to James C. Wonders, Stat[illegible] ghway Comr., Columbus, for state high[illegible] A, Logan and Athens road, was that of [illegible] ton & Henderson, Logan, at \$10,496, f[illegible] limestone macadam.

WORTHINGTON, OHIO.—Contract has been awarded, we are off[illegible] ly advised, to C. J. MILLER, of Toledo, [illegible], by the State Highway Department, for state highway A. Worthington and New Ha[illegible] road, Morrow County, at \$11,799. Bids were opened on Aug. 4. James C. Wonders is State Highway Comr.

COLUMBUS, OHIO.—Bids will be received by the Commissioners of Franklin County until noon, Aug. 25, for grading and macadamizing 1.56 miles of road in Norwich Township. Specifications, plans and profiles are on file in the office of the County Commissioners in Columbus and at the State Highway Department. Estimated cost, \$9,757. James C. Wonders is State Highway Comr.

COLUMBUS, OHIO.—Bids are asked until Aug. 23, by the County Commissioners, John Scott, Clk., for grading and macadamizing 9,600 ft. of road.

Bids will be received by Walter Braun, County Surv., Columbus, until noon, Sept. 4, for all of labor and material necessary to macadamize a portion of the Hess pike.

AKRON, OHIO.—Bids will be received by the Commissioners of Summit County until noon, Sept. 2, for grading and macadamizing two miles of road in Copley and Portage Townships. Specifications, plans and profiles are on file in the office of the County Commissioners in Akron and at the State Highway Department. Estimated cost, \$17,208.

CARROLLTON, OHIO.—Bids will be received by the Commissioners of Carroll County until noon, Aug. 26, for grading and macadamizing 1.05 miles of road in Center Township. Specifications, plans and profiles are on file in the office of the County Commissioners in Carrollton and at the State Highway Department. Estimated cost, \$6,845.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., Aug. 28, by the County Commissioners, William F. Black, Clk., for furnishing material for the repair of Wooster Pike and Lorain road.

ST. CLAIRSVILLE, OHIO.—Bids are asked until noon, Aug. 20, by the County Commissioners for grading and macadamizing 1.19 miles of road in Goshen Township, under the provisions of the state highway law. Estimated cost, \$7,179.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners until noon, Aug. 27, for the improvement of the Springfield pike through the village of Wyoming, Springfield Township. Fred Dreihs is Clk.

INDIANAPOLIS, IND.—Bids for paving Kentucky Ave. from the White River bridge to Howard St. were rejected on Aug. 11 by the Board of Public Works, as excessive.

ELKHART, IND.—The following bids were received for the improvement of High St. from Second St. to the St. Joseph River by the Board of Public Works, on Aug. 6: Andrews Asphalt Paving Co., of Hamilton, Ohio, sheet asphalt, per sq. yd., \$1.94, Metropolitan block, \$1.96; combination concrete curb and gutter per ft., 44 cts., gutter per ft., 44 cts., headers, 30 cts., catch basins, \$40, manholes, \$40, sewer inlets, \$15. Total cost for asphalt, \$14,844, for brick, \$14,968; Rankert & Co. of Mishawaka, Ind., Nelsonville block \$1.91, Athens block \$1.91, Metropolitan block, \$1.96, combination curb and gutter 43 cts., curb 30 cts., gutter 35 cts., headers 28 cts., catch basins \$46, manholes \$50, inlets \$15. The company also bid eight cents extra per square yard for asphalt filler; totals on Nelsonville and Athens block, without filler, \$14,659, with filler, \$15,154; Metropolitan block without filler, \$14,969.30, with filler, \$15,467; Sam Dixon Co. of Chicago—asphalt \$1.85, curb and gutter 45 cts., curb 30 cts, gutter 20 cts, headers 40 cts., catch basins \$45, manholes \$25, inlets \$40; total, \$14,700; H. G. Meyrick of Chicago, Postum block \$2.25, Moulding block \$2.25, Metropolitan block \$2.30, curb and gutter 42 cts., curb 52 cts., gutter 25 cts., headers, 25 cts., catch basins \$45, manholes \$37, inlets \$20; total on Postum and Moulding block, \$16,698; on Metropolitan block, \$17,007. No bids on macadam were offered. Engineer's estimate of paving this street with bithulithic block was \$17,352.

WILLIAMSPORT, IND.—Bids are asked by the Commissioners of Warren County until 1 p. m., Sept. 7, for the construction of a gravel road on line between Adams and Pine Townships. Length of road, 10,550 ft. Robert L. Winks is County Audr.

VINCENNES, IND.—Bids are asked by the Commissioners of Knox County until 2 p. m., Sept. 7, for the construction of 10,520 ft. of gravel road in Vigo Township, known as the Wehmeyer road. John T. Scott is County Audr.

FOWLER, IND.—The Commissioners of Benton County have ordered plans and specifications for the construction of four crushed stone roads all of which are three miles long. Bids will be asked soon.

Contracts have been let for the construction of the Remel stone road to ED. CYR, JR., four miles in length, at $12,835; the Bower road, three miles, stone, to L. W. BOOK, at $16,087; Michael stone road, one mile, to L. L. ROOK, at $3,300, and the Ballenseifer stone road, three miles, to FRANK BALLENSEIFER, at $8,975.

GREENCASTLE, IND.—Bids are asked by the Commissioners of Putnam County until Sept. 6 for the construction of 2½ miles of macadam road in Floyd Township. D. V. Moffit is County Audr.

DELPHI, IND.—Bids are asked by the Commissioners of Carroll County until Sept. 6 for the construction of two gravel roads, one in Jackson and one in Burlington Townships. M. G. Haun is County Audr.

ATTICA, IND.—The Commissioners of Fountain County have let contract for the construction of the Stockdale gravel road in Jackson and Cain Townships to ELBERT McKEE, at $7,267.

KNOX, IND.—Bids will be received by the Commissioners of Starke County until Sept. 6 for the construction of two gravel roads, one in Wayne and one in Roach Townships. Lee M. Ransbottom is County Audr.

TIPTON, IND.—Bids are asked by the Commissioners of Tipton County until 10 a. m., Sept. 6, for the construction of 3,948 ft. of gravel road in Cicero Township. J. F. Barlow is County Audr.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County until 1 p. m., Sept. 7, for the construction of six rock roads in Grant, Center and Oak Grove Townships. Lemuel Shipman is County Audr.

PORTLAND, IND.—The Commissioners of Jay County have let contract to WHEAT, SISK & RUPEL at $29,930 for the construction of the Smally gravel road, seven miles in length. Estimated cost, $41,056. There were 21 bidders.

HARTFORD CITY, IND.—Bids are asked by the Commissioners of Blackford County until noon, Sept. 1, for grading, draining and paving a roadway 20,975 ft. long on the county line. L. W. Daugherty is County Audr.

MARION, IND.—Bids are asked by the Commissioners of Grant County until 2 p. m., Aug. 24, for the construction of 5,310 ft. of stone road in Liberty Township, known as the Smith road. A. Y. Stout is County Audr.

VERNON, IND., Bids are asked by the Commissioners of Jennings County until 11 a. m., Sept. 6, for the construction of a free gravel road in Bigger Township. T. L. Thomas is County Audr.

BAY CITY, MICH.—The Board of Public Works has awarded contract for the Water St. pavement to VAN POPPELEN & MUNLEY, at $15,540.

CHAMPAIGN, ILL.—Plans are being prepared by the City Engineer for paving Prospect Ave. and Fourth St. from University Ave. to the city limits.

BUSHNELL, ILL.—Contract for brick pavement on a 4-in. sand cushion, bids opened on July 26, has been awarded by the city to P. H. TIERNAUR, of Macomb, at 26 cts. per cu. yd. excavation, 61 cts. per lin. ft. for curb and $1.66 per sq. yd. for pavement. Total, $25,393.

FREEPORT, ILL.—Contract for paving with brick block on a stone foundation Galena Ave. and West St. has been awarded to A. E. RUTLEDGE, of Rockford, Ill., at $34,847, and the contract for Galena Ave. and Broadway to A. F. FRANKE, of Jacksonville, Ill., at $34,351. J. A. R. Daniels is City Engr.

MOUNT PLEASANT, IOWA.—The BURLINGTON CONSTRUCTION CO., of Burlington, Iowa, was awarded contract on Aug. 5 by the Council for street paving here at $35,000.

ST. PAUL, MINN.—Bids are asked until 10 a. m., Sept. 7, by Edward G. Krahmer, County Audr., for grading Larpenteur Ave.

KANSAS CITY, MO.—Contracts for laying asphalt pavement have been let to the PARKER-WASHINGTON CO., 4500 Duncan Ave., at the following prices: Virginia St., Admiral to Eighth Sts., $2.05; Oakley St., St. John to Independence Sts., $1.90; Charlotte St., 19th to 21st Sts., $2; Wabash St., 37th to 38th Sts., $1.85.

PINE BLUFF, ARK.—The Board of Commissioners of Sidewalk Improvement District No. 4 have awarded contract to DUNNINGTON & ROYCE, of Pine Bluff, for constructing concrete sidewalks, curbs and gutter along 20 blocks of Cherry St. Noted last week.

MARIANNA, ARK.—W. R. PETTY, of Pine Bluff, has secured contract for constructing 13,400 sq. yds. vitrified block paving on a 5-in. concrete base, and 4,000 lin. ft. concrete curb, etc., at $32,000.

COURCHESNE (El Paso post-office), TEX. —El Paso County Commissioners have awarded contract to RICHARD CAPLES, of El Paso, Tex., for constructing 15 miles of asphalt macadam road from Courchesne to Anthony, N. Mex. R. B. Meadows is Engr.-in-Charge, El Paso.

EL RENO, OKLA.—Bids are asked by the city until Sept. 1 for paving Rock Island Ave. F. T. Stackpole is City Clk.

TACOMA, WASH.—The Commissioner of Public Works has included $15,000 for the construction of a municipal asphalt plant.

Paving contracts have been awarded as follows: S. Tacoma Ave., asphalt, to BARBER ASPHALT PAVING CO., Mutual Life Bldg., Seattle, at $52,250; Court C, granitoid blocks, to R. S. BLOME & CO., at $14,896.

WALLA WALLA, WASH.—Contract has been awarded to the BARBER ASPHALT PAVING CO., Mutual Life Bldg., Seattle, at $73,018, for paving North Palouse and Isaaxs Aves. and East Main St.

SAN FRANCISCO, CAL.—The city has decided to appropriate $34,000 toward the construction and paving of San Bruno Ave. in this city. Marsden Manson is City Engr.

RIVERSIDE, CAL.—Preliminary surveys are being made by the County Surveyor for the construction of the new 8-mile stretch on the Banning-Idyllwild road. Estimated cost, about $20,000.

PASADENA, CAL.—J. E. HADDOCK has been awarded contract for improving Summit Ave. as follows: Grading, 58 cts. per lin. ft.; curbing, 23 cts.; gutter, 14 cts.; oiling, 40 cts. Total, $7,417. Other bids were: W. A. Donlonville, $7,458; D. Degryse, $8,336; J. C. Kinsman, $8,534; D. C. Harwood, $7,597; Chamberlain & Williamson, $7,467.

ANDREW HALLOWAY has been awarded contract for improving Peoria St. at the following prices: Paving with broken stone, per sq. ft., 6½ cts.; grading, per lin. ft., 15 cts.; curb, per lin. ft., 20 cts.; gutters, per sq. ft., 13 cts. Heman Dyer is City Clerk.

SAN DIEGO, CAL.—The county voted on Aug. 3 to issue $1,250,000 of bonds for the construction of 450 miles of highways.

BOISE CITY, IDAHO.—We are officially advised that bids were received as follows on Aug. 12 by the city for concrete pavement: W. J. Moran, Ogden, Utah, $38,018; Storey & Fawcett, Boise, Idaho, $34,643; Miracle Construction Corporation, Minneapolis, Minn., $42,645; S. Birch & Son Construction Co., Salt Lake City, Utah, $33,537; Shaffer, Hawk & Clark, Boise, $31,561; J. Gustafson, Boise, $27,847. D. D. Williams is Pres. Bd. Pub. Wks.

MANUFACTURING PLANTS.

MANCHESTER, N. H.—Extensive changes and additions are to be made to the buildings occupied by the F. M. Hoyt Shoe Co. including an addition, 42 × 120 ft., and five stories high. The roof of the present factory will be raised and one story added, this building being 42 × 104 ft. ground plan. A 2-story addition for an office, having a ground plan of 21 × 32 ft., will also be built, and a coal pocket, 30 × 64 ft., will be added to the boiler-room. These buildings will be constructed of brick, with stone trimmings.

CONCORD, N. H.—The Monadnock Blanket Mills, a corporation organized to manufacture cotton, woolen and other fabrics, with a capital of $60,000, has filed articles of agreement at the office of the Secretary of State. The incorporators are Edward B. Richardson, of Marlboro; Charles H. Pease, of Boston; Fanny L. Applin, of Boston; Orville F. Caine and S. Irene Turner, of Keene.

BARRE, MASS.—Preparations are in progress for a worsted spinning mill of 20,000 spindles and tenement houses, to be built by the Barre Wool Co., Ltd., of South Barre, which has leased its plant to the Norway Mills at Providence. The mill will be of brick, 80 × 175 ft., with opportunity for enlargement in height and extent.

FALL RIVER, MASS.—The Warner Cotton Mills, of Newburyport, the Lowell Weaving Co., of Lowell, and the LeRoy Cotton Mills, of LeRoy, N. Y., have been combined under the name of the Bay State Cotton Corporation, and incorporated under Massachusetts laws, with a capital of $1,500,000. P. T. Jackson, Jr., of Boston, is Treas.

SCHENECTADY, N. Y.—The Climax Specialty Co. will build a plant on Albany road for the manufacture of plumbers' supplies. A foundry 40 × 146 ft., a machine shop 40 × 200 ft. with L and an office building 35 × 35 ft. brick and structural iron, concrete floors. Oren Finch, 437 State St., is Arch.

BROOKLYN, N. Y.—We are officially advised that the HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, New York, has been awarded contract for reinforced-concrete raft foundation for the cold storage plant of the Hutwelker Provision Co., Hall St., Brooklyn. C. E. Huntley is Arch., 103 Park Ave., New York.

POUGHKEEPSIE, N. Y.—A certificate of incorporation of the C. F. Hoag Co., of this city, has been filed in the County Clerk's office. According to the certificate, the new company takes over all the real estate and other assets of Curtis F. Hoag, which are to be used in the manufacture of knitted fabrics. The company is capitalized at $100,000. The directors are: Curtis F. Hoag, Asa Hoag and George L. Hoag.

ROCHESTER, N. Y.—We are officially advised that bids are being received by G. C. Wright, Arch., 35 Grand Ave., for the construction of a manufacturing plant, two stories high, of mill construction ground plan, 300 × 50 ft., fireproof. John G. Elbs is owner, 719 Exchange St.

BUFFALO, N. Y.—The Spencer Kellogg Co. will build a linseed oil refinery at Elk St. and D. L. & W. R. R., near Buffalo River, 40 × 100 ft., four stories, structural steel and brick construction. Cost, $50,000. Spencer Kellogg, Pres., Ganson and Michigan Sts.

The McKinnon Chain Co., recently incorporated with a capital of $1,000,000, to manufacture electrically welded chain has had plans prepared by its own engineer for a factory building, 100 × 200 ft., two stories, reinforced concrete and structural steel, to be erected on site now being negotiated for. Lachan McKinnon is Pres., corner Amherst St. and Military Road.

NIAGARA FALLS, N. Y.—The Niagara Electro Chemical Co. will receive bids for laboratory and factory buildings 52 × 118 ft. and 40 × 104 ft., two stories each, brick, reinforced concrete and structural steel which it will add to its plant on Buffalo Ave. Robert C. Fayfield, 880 Ellicot Square Bldg., Buffalo, is Arch.

LAKE VIEW, N. J.—The Textile Building Co., of Paterson, N. J., has been organized for the purpose of erecting a large silk mill here. Cost, about $250,000. The company is capitalized at $50,000. The incorporators are Henry, William, Henry Jr., and Raymond Doherty and Harriet D. Schoonmaker. As soon as plans under way have been completed for financing the enterprise building operations will be started. The mill will be occupied by the Henry Doherty Silk Co.

HOBOKEN, N. J.—We are officially advised that the HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, New York, has secured contract for the concrete superstructure of a 5-story bakery, 100 × 200 ft., for Schmalz Bros., Hoboken, at $75,000. C. M. Bartberger & Sons are Archs., 200 Ninth St., Pittsburg, Pa.

PHILADELPHIA, PA.—The Philadelphia & Reading Ry. Co. intends to build a creosoting plant for the preservation of railroad ties. A thorough inspection of the methods employed by other roads is being made by William Hunter, Ch. Engr.

PHILADELPHIA, PA.—Plans have been completed by Charles Balderston, Arch., 411 Walnut St., Philadelphia, for a large printing and publishing plant to be erected for George F. Lasher on the block bounded by Cherry, Juniper, Quarry and Clarion Sts. It will be an 8-story reinforced-concrete building with 18,000 sq. ft. of floor space to each floor.

QUEEN JUNCTION, PA.—The Electric Steel Co., with headquarters in Cleveland, Ohio, has closed a deal for 300 acres at Queen Junction, Butler County, at the junction of the Bessemer and Western Allegheny railroads. The deal was closed by A. Conner, Pres., of the American Realty Co. in Pittsburg, the consideration being $38,000. The company will erect a plant to cost $500,000 for the manufacture of steel and coal machinery, to employ about 500 men at the start. Work on the plant will be started in August, probably.

BALTIMORE, MD.—A 3-story fireproof building will be erected by Erlanger Bros. as an addition to their underwear manufacturing plant at No. 527 West Pratt St. in the rear of the present structure. Plans and specifications for its construction are now being prepared by G. O. Cogswell and the contract for the work has been awarded to MORROW BROS., 216 West Saratoga St., Baltimore. The addition will conform in architecture to the present plant. The woodwork will be of mill construction.

RICHMOND, VA.—A charter was issued on Aug. 1, to the Patterson Mills Co., of this city, to operate a cotton mill, with the principal office in Richmond. The promoters are Charles Cohen, Pres.; T. C. Williams, Vice-Pres.; W. T. Reed, Secy.; R. C. Wortham, Jr., Treas.; W. M. Habliston, all of Richmond, and S. F. Patterson, of Roanoke Rapids, N. C., General Mgr. The capital is from $300,000 to $500,000.

CHARLOTTE, N. C.—The Icemorlee Cotton Mills Co., of Monroe, has its No. 2 mill building about ready for machinery, and will install the spindles decided on. This additional building is 75 × 350 ft., and will be equipped with 5,000 spindles, driven by electric power, for manufacturing cotton yarns.

EDGEFIELD, S. C.—The proposed Beaver Dam Mills, of Edgefield, has been incorporated with a capital stock of $200,000. This company takes over the Edgefield Manufacturing Co., which was sold recently by court order. It will operate the 5,000 spindles, 328 looms, etc., and may add to that equipment. About $10,000 will be expended for the erection of a new mill building two stories high, 100 ft. long by 80 ft. wide. The company will organize with B. F. Zimmerman as Treas. and Gen. Mgr. The incorporators include B. F. Zimmerman, Lewis W. Parker, Ellison A. Smyth and others, of Greenville, S. C.; M. L. Marchant, of Greer, S. C.; B. F. Taylor, of Columbia, S. C., and others. Noted on Aug. 5.

GREENWOOD, S. C.—F. S. Evans and associates, of Greenwood, S. C., are planning the organization of a $300,000 company to build a cotton mill.

LOUDON, TENN.—The managers of the Loudon Hosiery Mills, of Loudon, will increase the capacity of their plant, which now operates 108 knitting machines and accompanying apparatus on the production of seamless hosiery. They will build a brick addition to house the new machinery and have accepted plans and specifications for the new structure. Baumann Bros., of Knoxville, Tenn., are Archs.

MEMPHIS, TENN.—The American Bag Co. of Memphis, Tenn., will arrange for the erection of a mill to manufacture the bag cloth it uses in manufacturing bags of various kinds. The company recently issued bonds for $250,000 in connection with the proposition. It is proposed to organize a separate corporation to own and operate the cloth mill. W. H. Carter, Secy. of the American Bag Co., is completing the arrangement for the new enterprise.

TOLEDO, OHIO.—The Federal Creosoting Co., of Chicago, on Aug. 13 awarded contract to build its Toledo plant to DEVORE & McGORMLEY, Ohio Bldg., Toledo. The plant will have three buildings, a retort structure, a power-house and a combination office and machine shop.

BRAZIL, IND.—The Knight-Brinkerhoff Piano Co. is asking for bids for the installation of a heating plant in its new factory building. F. A. Knight is Pres.

EVANSVILLE, IND.—Charles S. Hernley has contracted for a site in this city upon which to construct a large plant for the Pittsburg Steel Mill Co.

MISHAWAKA, IND.—The Simplex Motor Car Co. has approved plans for a large addition to its plant. Bids will be asked in a short time. W. W. Schneider, of South Bend, is Arch. Estimated cost, $400,000.

WABASH, IND.—Garcus & Riley will soon ask for bids for the construction of a large school furniture factory on the site of the plant recently destroyed by fire. Estimated Cost, $75,000.

CHICAGO, ILL.—The Squire Dingee Co., 171-177 Clybourn Pl., manufacturers of pickles, contemplates adding to the plant on Clybourn Pl. a mill constructed factory building, 130 × 100 ft., to cost $80,000 and to be four stories high.

WATERTOWN, WIS.—The G. B. Lewis Co., manufacturers of bee-ware and boxes, etc., has awarded general contract for new $150,000 factory to LYNN M. MILLIKAN CO., of Indianapolis, Ind. Noted on Aug. 5.

ST. PAUL, MINN.—The McGill-Warner Co., printers, city, are taking figures on a 4-story pressed brick and cut stone fireproof plant to be built at Ninth and Sibley Sts. It will be 100 × 140 ft., having steam heating and electric lighting. James A. MacLeod, city, is Arch. Cost, $75,000.

ROCKINGHAM, N. DAK.—W. Entwistle of the Pee Dee Mfg. Co. will organize the Entwistle Mfg. Co., it is stated, to build a mill of 40,000 spindles and 1,000 looms. Capital stock, $1,000,000.

EARLE, ARK.—N. B. Graves will form a corporation with not less than $50,000 capital to build and operate a mill for the manufacture of cotton sheetings, although the product has not been definitely settled. A steam power plant will be built.

ROGERS, ARK.—Bids will be received by the Haefele Lamp Co. of Rogers, until Sept. 1, for equipment to be installed in its new plant for the manufacture of the Haefele electric lamp, which will include stamping machines, drilling machines, tinners' tools, etc. The machinery will be equipped for electric motor drive. R. S. Willis is Pres.; J. E. Felker is Treas.

HARTSHORNE, OKLA.—The FREEBORN ENGINEERING & CONSTRUCTION CO., Scarritt Bldg., Kansas City, Mo., has secured contract, it is reported, for the construction of the 12,000-bbl. Portland cement plant at Hartshorne, for the Oklahoma City Portland Cement Co., recently incorporated, with a capital stock of $1,200,000. The buildings will be of steel construction and the machinery operated by electricity. The engineering company has not yet decided upon the equipment for the plant.

VICTOR, COLO.—Following a meeting of the directors of the Portland Gold Mining Co. at Colorado Springs recently, announcement was made that the company has definitely decided to build its proposed cyanide mill in the vicinity of the mine at Victor. Plans for the new mill are being prepared by S. J. Connolly, M. E., at the Portland mill in Colorado Springs. J. B. Daniels is mill manager. The mill will have an initial capacity of 300 tons a day, representing one unit, and the crushing plant will have an initial capacity of 300 tons every eight hours. Cost, about $200,000.

CIMARRON, N. MEX.—The Cimarron Tarp-Tent Co., which was recently organized, is making plans for the erection of a factory in Cimarron.

SPOKANE, WASH.—A large factory for the manufacture of wood and metal preservative is to be erected in Spokane by E. P. Spalding and associates. The Pacific Timber Preservative Co., incorporated at $100,000, has been formed and articles of incorporation filed, for the purpose of manufacturing, producing, and acquiring compounds for the preservation of timber, wood, steel, iron and other metals. The incorporators include E. P. Spalding, Pres. Idaho Northern Ry. Co.

The Washington Brick, Lime & Mfg. Co. and the Spokane Sewer Pipe Factory have consolidated under the name of the Washington Brick, Lime & Sewer Pipe Co., with J. H. Spear, Pres. and Mgr., and will build a sewer pipe factory in Spokane. Cost, $300,000. The new company is capitalized at $2,000,000.

SEATTLE, WASH.—The Westlake Improvement Co. will erect a 2-story brick and steel store and manufacturing building between Olive and Stewart Sts. Cost, $40,000. Plans are now being prepared. W. P. Trimble is Pres.

SALT LAKE CITY, UTAH.—B. F. Redman will erect a warehouse 100 × 200 ft. on Fourth West St., between First and Second South Sts., the building to cost $55,000 when completed.

PORT COLBORN, ONT.—The large Hedley-Shaw Mills are to be built at once. Cost, $50,000.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DITCH.—Bristol, Ill.—J. M. EGAN, Amboy, Ill., has been awarded contract for the Raymond drainage ditch in Bristol, at about $5,000.

WALL.—Pittston, Pa.—STIPP & HEALEY have been awarded contract for building a retaining wall at the Fort Pittston school, at $16,451.

VESSEL.—Washington, D. C.—Bids are asked until noon, Aug. 31, by the Navy Department for constructing by contract one fleet collier.

REPAIRING SCOWS.—New York, N. Y.—Bids are asked by the Department of Street Cleaning until noon, Aug. 25, for repairing seven scows.

DITCH.—Marion, Ind.—Bids are asked by D. M. Murphy, Drainage Comr., until 2 p. m., Aug. 21, for building the North Branch of the Watter's Ditch.

*RIFLE RANGE.—Albany, N. Y.—Bids are asked until noon, Aug. 31, by the Armory Commission, Albany, for construction of state rifle range, Blauvelt, N. Y.

*STEEL BARGES.—Vicksburg, Miss.—Bids are asked until noon, Oct. 6, by Capt. Clarke S. Smith, Corps Engrs., U. S. A., for constructing and delivering steel barges.

DITCH.—Nevada, Iowa.—The Board of Supervisors has awarded contract for building Nevada Township Ditch No. 17 to DUNKELBARGER & KING, of Nevada, at $27,357.

LEVEE.—Vicksburg, Miss.—Contract for building 210,000 cu. yds. of levee at Gaines Landing, Ark., has been let to LACY BROS., Arkansas City, Ark., at 16.45 cts per cu. yd.

*DREDGING.—Raritan, N. J.—Bids will be received by D. W. Lockwood, Corps Engrs., U. S. A., 39 Whitehall St., New York, N. Y., until Sept. 14 for dredging in Raritan Bay, N. J.

SEAWALL.—Ft. McRee, Fla.—Bids will be received by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, Ala., until Sept. 10 for constructing a seawall at Ft. McRee.

WHARF.—New Orleans, La.—The Board of Port Commissioners has let the contract for constructing Poydras St. wharf to CHAS. R. CORBETT, 224 Vallette St., New Orleans, at $17,297.

EARTH FILLING.—Fort Slocum, N. Y.—Bids are asked by the Constructing Quarter Master, Fort Slocum, New Rochelle, N. Y., until 10 a. m., Aug. 21, for filling freshwater pond.

IRON FENCE.—New York, N. Y.—Bids are asked until 3 p. m., Aug. 26, by the Department of Parks for furnishing and delivering 10,000 lin. ft. of 3-pipe iron fence for parks in Boro. The Bronx.

BREAKWATER. — Newport, R. I. — Bids are asked until 11 a. m., Sept. 15, by Lieut.-Col. J. C. Sanford, Corps Engrs., U. S. A., for repairing breakwater of Harbor of Refuge at Point Judith, R. I.

LEVEE.—Vincennes, Ind.—The contract for the Mason J. Niblack levee in Busseron Township, ten miles in length, has been let to E. P. SNAPP, of Oaktown, Ind., for $53,000, the estimated cost.

DREDGING.—Erie, Pa.—Bids were received on July 15 by Col. W. L. Fisk, Corps Engrs., U. S. A., Buffalo, N. Y., for dredging at Erie Harbor, Pa. Lowest bidder was the Buffalo Dredging Co., Buffalo, at $10,000.

DRAINAGE.—Waterloo, Neb.—The Elkhorn Valley Drainage District has awarded contract for straightening the Elkhorn River and for drainage ditches to the POLLARD-CAMPBELL DREDGING CO., of Omaha.

DRAIN. — Farnhamville, Iowa. — Contract for constructing the joint Webster and Calhoun County tile drain, south and east of Farnhamville, has been awarded to LARSON & AURIN, of Lanesboro, Iowa, at $18,500.

LEVEE.—West Memphis, Ark.—Bids are asked by the Levee Board until noon, Sept. 1, for construction of 55,000 cu. yds. of levee work near Barfield, Ark. B. G. Covington is Ch. Engr., 168 Randolph Bldg., Memphis, Tenn.

*AIR COMPRESSOR.—Pittsburg, Pa.—Bids are asked until noon, Sept. 15, by Maj. H. C. Newcomer, Corps Engrs., U. S. A., for furnishing and installing an air compressor plant at Lock 1, Monongahela River, Pittsburg.

*DAM.—Greenwich, Conn.—Bids are asked by Albert B. Hill, Engr., 100 Crown St., New Haven, Conn., until noon, August 24, for raising Putnam Dam. For details see advertisement in last week's issue of Engineering News.

RACE TRACK.—Eburne, B. C.—G. V. COTTON, of South Park, Wash., has been awarded contract for building a race track at Eburne, B. C., at $75,000. Track is being built for the British Columbia Thoroughbred Association.

LEVEE.—Pine Bluff, Ark.—JOHN A. and A. MONROE PURDUE, of Pine Bluff, have been awarded the contract for building a levee twelve miles long at Cardens Bottoms, near Dardanelle, Ark. The work will cost approximately $30,000.

*STEEL FENCES.—Cheyenne, Wyo.—Bids are asked by Capt. V. K. Hart, Keefe Hall, Cheyenne, until 9.30 a. m., Aug. 30, for construction of steel fences for corrals at Fort D. A. Russell, Wyo., and for the necessary grading connected therewith.

DREDGING.—Detroit, Mich.—Bids were received by Col. C. McD. Townsend, Corps Engrs., U. S. A., on July 12 for dredging at Bar Point Shoals, Detroit River. The lowest bidders were G. H. Breymann & Bro., Toledo, Ohio, at 27 cts. per cu. yd.

PIER.—San Francisco, Cal.—The Board of Harbor Commissioners has awarded contract to the WESTERN BRIDGE & CONSTRUCTION CO., of Sacramento, Cal., at $24,463, for building approaches to pier No. 40, and for constructing a bulkhead wharf.

*CREOSOTED MATERIAL. — Galveston, Tex.—Bids are asked until noon, Sept. 15, by Capt. John C. Oakes, Corps Engrs., U. S. A., for furnishing and delivering creosoted material and lumber for improving Galveston Ship Channel and Buffalo Bayou, Tex.

PILE DRIVER.—Burrwood, La.—Bids will be received until Sept 9 by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for furnishing and delivering combined pile driver and derrick plant at Burrwood, Southwest Pass, Mississippi River, La.

VACUUM CLEANING SYSTEM.—Portland, Me.—Bids will be received at the office of the Supervising Architect, Treas. Dept., Washington, D. C., until 3 p. m., Aug. 26, for the installation of a vacuum cleaning system in the U. S. Court-House at Portland.

ROCK, ETC.—New York, N. Y.—Bids were received as follows on July 22 by the Park Board for completing contract for furnishing and delivering crushed trap rock and trap rock screenings in parkways, Boro. of Brooklyn, (a) price per cu. yd., (b) totals: Clinton Point Stone Co., 115 Broadway, New York, (a) $1.90, (b) $12,825; Jacob E. Conklin, 299 Broadway, New York, (a) $1.62½, (b) $10,969; Manhattan Trap Rock Co., 30 Church St., New York, (a) $1.80, (b) $12,150; Norton & Gorman Contracting Co., 339 Douglass St., Brooklyn, (a) $1.98, (b) $13,365.

RIVER WORK.—New Orleans, La.—Bids will be received until 11 a. m., Sept. 9, by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., New Orleans, for removing a mattress sill laid on the bed of the river across the head of Southwest Pass, Mississippi River.

TUNNEL.—Anderson, Ind.—The Commissioners of Madison County will soon ask for bids for the construction of a tunnel through the high grade crossing of the Cleveland, Cincinnati, Chicago & St. Louis Ry. tracks at Main St., in Pendleton, Ind. Estimated cost, $25,000.

ORE-HANDLING MACHINERY. — Philadelphia, Pa.—Contract has been awarded by the Philadelphia & Reading Ry. for building ore-handling machinery to be installed at the new Port Richmond ore pier, to the BROWN HOISTING MACHINERY CO., of Cleveland, Ohio.

VACUUM CLEANING SYSTEM.—Tacoma, Wash.—Bids will be received until Aug. 31 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing a vacuum cleaning system in the U. S. post-office, court-house and customhouse at Tacoma.

CANALS.—Jonesboro, Ark.—The Commissioners of Craighead County have awarded contract to CLYDE A. WALB, Lagrange, Ind., to construct Little Bay canal, and to ENGEL BROS., Monterey, Ind., Big Bay canal. The contracts involve about 30 miles of canal work. Estimated cost, $80,000.

*DREDGING.—Wilmington, Del.—Bids were received as follows on Aug. 9 by Capt. L. H. Rand, Corps Engrs., U. S. A., for dredging Cooper Creek, N. J.: American Dredging Co., 28 cts. per cu. yd.; River & Harbor Improvement Co., 26.8 cts.; the Rickards Dredging Co., Philadelphia, 19 cts. (recommended for acceptance).

MEMORIAL MONUMENT. — Vicksburg, Miss.—Bids are asked by the Vicksburg National Military Park Commission, Vicksburg, until noon, Sept. 8, for building a granite obelisk with foundation and pedestals in the Vicksburg National Military Park. Specifications are on file at office of Engineering News, New York.

*DREDGING.—Oswego, N. Y.—Bids were received as follows on Aug. 9 by Col. W. L. Fisk, Corps Engrs., U. S. A., for dredging in Charlotte Harbor, N. Y.: The Buffalo Dredging Co., Buffalo, N. Y., 29 cts. per cu. yd.; Daly & Hannan Dredging Co., Ogdensburg, N. Y., 27 cts.; the Central Dredging Co., Buffalo, N. Y., 29 cts.

DITCH.—Swea City, Iowa.—Contract for the construction of drain No. 39, south of here, has been let to the ARMSTRONG CEMENT CO. for $23,481. This firm has sub-let the digging of the ditch, laying the tile and covering it, to GEORGE H. ERICKSON, of this city, for $11,000. The length of the drain is 10½ miles.

*DREDGING, DOCK WORK.—Chicago, Ill.—Bids were received as follows on July 21 by the Sanitary District of Chicago for dredging and dock work on the Lake Michigan shore off Wilmette, Ill. I. J. Bryan, Clk. Bd. Trustees. The bids were: Chicago Construction Co., $92,371; the Great Lakes Dredging Co., Chicago, $62,836.

WRECKING BOAT.—New York, N. Y.—M. P. Smith & Sons Co., 116 Broad St., New York, have recently closed a contract with the STATEN ISLAND SHIPBUILDING CO., of Port Richmond, S. I., to build for them a steel propeller boat, specially designed and heavily constructed, to be used in their heavy hoisting, transportation and wrecking business.

REFRIGERATORS.—Chicago, Ill.—Bids are asked by the Chief Q. M., Department of the Lakes, U. S. A., 556 Federal Bldg., Chicago, until 11 a. m., Aug. 31, for the supply of 400 refrigerators, of sizes herein given, subject to an increase of 50% should such be desired by the department. Bidders must state the time and place where they propose to make deliveries.

CHANNEL.—Boston, Mass.—Bids were received by the Charles River Basin Commission on Aug. 9 for excavating a channel in the Charles River; work includes about 16,000 cu. yds. earth excavation, and a small amount of rock excavation. Hiram A. Miller, Ch. Engr., 367 Boylston St. Contract was awarded to CAVANAGH BROS., South Boston, Mass., at $13,100.

LEVEE.—New Orleans, La.—The Board of Levee Commissioners has let contract to the HERCULES CO., LTD., 407 Cotton Exchange Bldg., for constructing the Carrollton reach, levee and revetment, 7th Dist. Bids were received on July 20. The bid of the HERCULES CO. was as follows: 400,000 cu. yds. earth in revetment, 33.33 cts. per cu. yd.; 265,000 ft. B. M. creosote pine in revetment, $61.25 per M ft. B. M. Noted on July 15. Jules C. Koenig, Pres.

BULKHEAD.—New York, N. Y.—Bids were received by Lawrence Gresser, Pres. Boro. Queens, Long Island City, on July 21 for furnishing all the labor and material necessary for repairing for and building a concrete bulkhead and removing part of old bulkhead at the foot of Straiton Ave., etc. Contract has been awarded to PEACE BROS., 21 Main St., Flushing, L. I., N. Y., at $3,390.

DITCHES.—Watseka, Ill.—Contract for the Martinton Drainage Dist. No. 3 drainage system has been let to JOHN C. VAN NATTA, of Brookston, Ind., at $65,746.

Contract for dredge work in the Iroquois and Crescent Dist. No. 1 has been let to Mr. VAN NATTA at $8,500. The contract for tile for this district has been let to the NATIONAL DRAIN & TILE CO., of Terre Haute, Ind., at $13,200.

CANAL DREDGING.—Seattle, Wash.—Bids were received as follows on Aug. 4 by Maj. C. W. Kutz, Corps Engrs., U. S. A., for construction of the Lake Washington canal: Andrew Peterson, 65 cts. a cu. yd.; C. J. Erickson, 35 cts. (this bid provides that if the amount of excavation is increased to 270,000 cu yds., he will handle the work on the basis of 30 cts. per cu. yd.); Dadenhaueser & Hull, 35 cts.

STEAMER.—New York, N. Y.—Bids were received as follows by John J. Barry, Comr. of Dept. of Correction, on Aug. 5, for furnishing all the labor and materials required for construction and completion of a 166-ft. wood twin-screw passenger steamer: John W. Sullivan, 827 East Ninth St., $92,490; Jas. Shewan & Son, foot Houston St., East River, $97,490; Jas Tregarthen & Son, foot Seventh St., $99,000; Walter Gildersleeve Hull Co., $95,460.

*DRAINAGE.—Champaign, Ill.—Bids are asked until 10 a. m., Aug. 28, at Ray & Dobbin's office, Champaign, for the cleaning, deepening and improving of the main ditch and branch ditches of the Beaver Lake Drainage Dist., Champaign County, Ill., a total distance of 35¾ miles, requiring the excavating of 454,745 cu. yds. of dirt. Also the furnishing, hauling and laying 108,235 ft. of farm drain tile size from 30 ins. to 7 ins. in diameter. W. J. Day, Engr., Bement, Ill.

TRACK.—Norfolk, Va.—Bids were received at follows by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Aug. 7 for constructing a track for a 40-ton crane at Norfolk Navy Yard: Wm. L. Miller, 19 Milk St., Boston, (1) $21,900, (2) $9,800, (3) $27; G. & W. Mfg. Co., 26 Cortlandt St., New York, (1) $19,897, (2) $8,300, (4) $19.85; Alsop & Pierce, Newport News, Va., (1) $11,970, (2) $4,770, (3) $11.63; Sanford & Brooks Co., Baltimore, (1) $15,480, (2) $6,510, (3) $13.45.

*SNAGBOAT.—Dallas, Tex.—Bids were received by Capt. A. E. Waldron, Corps Engrs., on Aug. 10, for construction complete of wooden snagboat, as follows: (A) price, (B) place of delivery: Ed. J. Howard, Jeffersonville, Ind., (A) $30,536, (B) mouth of Red River, La.; M. A. Sweeney Shipyard & Foundry Co., Jeffersonville, Ind., two bids: (A) $28,490, (B) Velasco, Tex.; (A) $27,700, (B) New Orleans or mouth of Red River, La.; The Johnson Iron Works, Ltd., New Orleans, La., (A) $37,825, (B) Velasco, Tex.

RIPRAP, ETC.—Boston, Mass.—Bids were received by the Board of Harbor and Land Commissioners on Aug. 6 for building a stone rip-rap protection for the bluff near Hotel Mattaquason, in the town of Chatham; also for building a stone breakwater and jetty in Vineyard Haven Harbor. Frank W. Hodgdon, Ch. Engr. Contract for riprap work was awarded to WM. SEARS, of East Dennis, Mass., and CHAS. TAYLOR and DAVID A. ELDRIDGE, of Harwich Port, Mass., at $15,000. Contract for breakwater, etc., was let to E. S. BELDEN & SONS, Hartford, Conn., at $10,540.

PARK.—New York, N. Y.—Bids were received as follows on Aug. [illegible] by the Department of Parks, for constructing the southerly portion of Colonial Park, Boro. of Manhattan: The Cooper & Evans Co., 220 Broadway, $79,400; Rogers & Haggerty, $95,564; Atlanta Contracting Co., 730 E. 42d St., $90,759; Allboro Contracting Co., 50 Church St., $97,000; C. W. Collins, [illegible] E. Fordham Rd., $104,000; Sicilian Asphalt Paving Co., 41 Park Row, $97,259; Chas. L. Doran, 1015 Walton Ave., $91,000; Barber Asphalt Paving Co., 30 Church St., $9[illegible]28; T. M. McLeod, 90 West St., $109,340; Dunbar Contracting Co., $95,000.

CRANE TRACK.—Philadelphia, Pa.—Bids were received as follows at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Aug. 14, for constructing an extension of the crane track, Navy Yard, Philadelphia, as per specification No. 1653: Lawler Bros. Construction Co., New York, $27,751; G. & W. Mfg. Co., 26 Cortlandt St., New York, $24,313; American Paving & Construction Co., 211 S. Ninth St., Philadelphia, $29,000. Filbert Paving and Const. Co., Philadelphia, $22,990; Snare & Triest Co., 143 Liberty St., New York, $21,400; Edward Fay & Son, Philadelphia, $19,890; Latta & Terry Construction Co., Pennsylvania Bldg., Philadelphia, $20,990; Penn Bridge Co., Washington, $21,865.

(Continued on page 69.)

CONTRACT PRICES.

PAVING.—Albany, N. Y.—Bids were received by the Board of Contract and Supply, Albany, on July 28, for the improvement of Washington Ave., from Lexington Ave. to North Lake Ave. Itemized bids were as follows: (A) Michael F. Dollard, Albany, N. Y.; (B) North Hudson Contracting Co., Albany, N. Y.; (C) Edward F. Dillon, Albany; (D) Heller & Shepard, Rochester, N. Y.; (E) John M. Holler, Albany; (F) Mulderry Bros., Albany:

	(A)	(B)	(C)	(D)	(E)	(F)
8,820 sq. yds. brack pavement	$2.20	$2.03	$2.35	$2.20	$2.18	$2.12
120 sq. yds. driveway	2.20	2.03	2.35	2.20	2.18	2.12
10 sq. yds. relaying pavement	1.50	.70	.75	1.50	.80	1.60
10 sq. yds. relaying pavement	1.75	.80	.75	1.50	1.50	1.60
10 sq. yds. relaying pavement	.30	.35	.25	.30	.30	.40
10 sq. yds. relaying pavement	.40	.45	.30	.40	.50	.50
3,000 lin. ft. straight curb	.85	.83	.87	.82	.83	.84
75 lin. ft. circular curb	1.25	.83	1.20	1.10	1.30	1.40
2,600 lin. ft. straight concrete curb	.60	.60	.90	.30	.45	.50
400 lin. ft. circular concrete curb	.70	.60	1.20	.40	.60	.55
50 lin. ft. relaying curb	.30	.40	.75	.25	.50	.40
10 lin. ft. relaying curb	.20	.20	.20	.20	.30	.30
2,700 sq. ft. flagwalk, 4 ft	.18	.21	.20	.19	.18	.20
1,000 sq. ft. flagwalk, 5 ft	.19	.23	.25	.21	.21	.21
2,300 sq. ft. flagwalk, 6 ft	.20	.25	.28	.24	.24	.23
43,000 sq. ft. brick walk	.06	.11	.12	.10	.10	.08½
10,000 sq. ft. relaying walk	.04	.06	.06	.05	.05	.05
2,500 sq. yds. sod	.18	.30	.35	.27	.30	.25
100 sq. yds. relaying sod	.12	.18	.18	.27	.15	.15
2,100 lin. ft. 12-in. pipe	.90	1.00	1.25	1.10	.90	.94
100 lin. ft 6-in. pipe	.50	.55	.75	.60	.70	.94
90 Y's	2.25	2.00	3.25	3.00	3.25	2.40
40 6-in. bends	.60	.60	.45	.75	.70	.60
10 reducers	1.00	.70	1.20	1.00	.80	.75
9 manholes	40.00	45.00	45.00	45.00	50.00	40.00
1 basin	80.00	90.00	75.00	85.00	80.00	85.00
Days to complete, $5 per day	60	60	80	55	60	60
Total	$31,603	$33,176	$38,578	$33,424	$33,477	$32,702

BARGE CANAL.—Albany, N. Y.—Bids in detail received by F. C. Stevens, Supt. Public Works, on Aug. 3, for Barge Canal Contract No. 53, providing for the construction of Lock No. 1 at Phoenix, were as follows: (A) Engineer's estimate; (B) SCOTT BROS., Baldwinsville, N. Y. (awarded contract); (C) Northwestern Construction Co. and F. J. McCain Construction Co., Franklin, Pa., and Mercer, Pa.; (D) Morris Kantrowitz, Albany, N. Y.; (E) Coast & Interior Contracting Co., Fayetteville, N. Y.; (F) The Snare & Triest Co., 143 Liberty St., New York; (G) Robert C. Storrie & Co., Philadelphia, Pa.; (H) Merrill-Ruckgaber Co., 50 Church St., New York; (I) American Pipe & Construction Co., 112 North Broad St., Philadelphia. Noted last week:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Clearing (lump sum)	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00
50,000 cu. yds. excavation	1.00	.75	.85	1.20	.83	1.00	1.05	1.00	1.03
121 M. ft. B. M. sheeting and bracing, per M. ft. B.M.	50.00	40.00	40.00	55.00	50.00	43.00	50.00	40.00	60.00
510 lin. ft. round timber bracing	.20	.20	.20	.20	.20	.20	.20	.15	.24
7,860 cu. yds. forming embankment	.15	.15	.15	.15	.12	.10	.15	.12	.18
1 M. ft. B. M. sawed lumber, yellow pine or Douglas fir, per M. ft. B. M.	55 00	55.00	100.00	60.00	60.00	50.00	55.00	44.00	66.00
8 M. ft. B. M. white oak in miter sills and gates, per M. ft. B. M.	100.00	100.00	100.00	100.00	100.00	100.00	100.00	80.00	100.00
15,700 cu. yds. second-class concrete	7.50	6.35	6.90	7.90	6.25	6.90	7.00	7.26	6.00
5 cu. yds. reinforced concrete	10.00	10.00	10.00	10.00	12.00	11.00	10.50	12.00	12.00
100 cu. yds. fourth-class riprap	2.25	2.25	2.25	2.25	2.00	2.25	2.25	2.70	2.70
8,200 lbs. structural steel	.045	.045	.045	.045	.05	.04	.045	.036	.054
8,000 lbs. metal reinforcement	.035	.035	.035	.035	.04	.03	.035	.04	.04
12,000 lbs. iron castings, plain	.035	.035	.035	.035	.04	.03	.035	.028	.04
7,000 lbs. iron castings, machined	.05	.05	.05	.05	.055	.045	.05	.04	.06
218,000 lbs. metal in lock gates	.05	.05	.045	.05	.055	.043	.05	.04	.05
78,000 lbs. metal in buffer beams	.055	.055	.05	.055	.06	.05	.055	.044	.05
24,000 lbs. metal in lock valves	.08	.08	.08	.08	.09	.08	.08	.064	.09
500 lin. ft. drilling bolt holes in rock	.60	.60	.60	.66	.50	.60	.60	.72	.50
Maintaining highway traffic (lump sum)	250 00	250.00	250.00	275.00	250.00	250.00	250.00	200.00	300.00
Maintaining navigation (lump sum)	250.00	250.00	250.00	275.00	250.00	250.00	250.00	200.00	300.00
Cofferdams, pumping, bailing and draining (lump sum)	5,000.00	3,000.00	5,000.00	6,000.00	5,000.00	5,000.00	5,000.00	4,000.00	6,000.00
Deduct price to be paid to the State of New York for bridge superstructure in place, which is to be removed by the contractor without expense to the state (lump sum)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Total	$200,500	$166,735	$180,935	$218,470	$173,975	$187,748	$195,152	$189,558	$181,126

MISCELLANEOUS CONTRACTS.

PIERS.—North Chicago, Ill—Bids were received as follows on July 20 by J. E. Pillsbury, Ch. Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of harbor entrance piers at Naval Training Station, Great Lakes, North Chicago: (a) for entire construction according to plans and specifications, including pile piers, pile revetment, timber cribs and landing float; (b) for entire work, omitting steel landing float and brow: Standard Construction Co., 164 Dearborn St., Chicago, (a) $96,600, (b) $95,400; P. W. Galloway, Racine, Wis., (a) $105,5??, (b) $101,839; Great Lakes Dredge & Dock Co., 138 Washington St., Chicago, (a) $111,200, (b) $109,700.

*DREDGING.—Saginaw, Mich.—Bids were received as follows on July 26 by Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for dredging (a) Saginaw River, 10,000 cu. yds., per cu. yd.; (b) bar at mouth of Saginaw Bay, 110,000 cu. yds., per cu. yd.; (c) totals: G. H. Breymann & Bro., Toledo, Ohio, (a) 25 cts., (b) 18 cts., (c) $22,300; Great Lakes Dredge & Dock Co., Chicago, Ill., (a) 25 cts., (b) 23 cts., (c) $27,800; James Davidson, West Bay City, (a) 25 cts., (b) 25 cts., (c) $30,000; Central Dredging Co., Cleveland, Ohio, (a) 30 cts., (b) 24 cts., (c) $33,225; Edward Bros., Sault Ste. Marie, (a) 40 cts., (b) 24 cts., (c) $30,400; Standard Construction Co., Cleveland, Ohio, (a) 25 cts., (b) 25 cts., (c) $31,000.

U. S. POSSESSIONS.

SUPPLIES—Panama—Bids are asked by the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., as follows: Until 2.30 p. m., Aug. 23, for well drills (Circular 530-A); until 2.30 p. m., Aug. 20, for cross ties (Circular 529-B); until 10.30 a. m., Sept. 7, for furnishing during the year ending Sept. 30, 1910: Pig iron, ingot copper, and ferromanganese (Circular 530); until 10.30 a. m., Sept. 9, various supplies (Circular 531).

CAR WHEELS.—Panama.—Bids were received as follows on Aug. 12 by the General Purchasing Officer of the Isthmian Canal Commission, Washington, for furnishing cast-iron car-wheels, (a) 7,200 665-lb., (b) 200 615-lb. each 33-in.: American Car & Foundry Co., New York, (a) $8.50 each; (b) $7.90; George S. Fowler, Home Life Bldg., Washington, (a) $7.84, (b) $7.15; Mt. Vernon Car Mfg. Co., Mt. Vernon, Ill., (a) $9.05, (b) $8.37; Pierson & Co., New York, (a) $8.30, (b) $7.67.

LUMBER.—Panama.—Bids were received as follows on Aug. 9, by the General Purchasing Officer, Isthmian Canal Commission, Washington, for furnishing the annual supply of lumber for car repairs, amounting to about 6,000,000 ft. B. M.: Chicago Lumber & Coal Co., St. Louis, $182,259, pine; G. Elias & Bro., Buffalo, $204,559, fir; Wm. D. Gill & Sons, Baltimore, $187,105, pine; D. L. Gillespie & Co., Pittsburg, $159,639, pine or fir, bidder's option; W. R. Grace & Co., San Francisco, $177,977, fir; J. K. Joice, Chicago, fir, $183,828; pine, $222,371; Charles Nelson Co., San Francisco, $208,392, fir. Fir delivered at Balboa, Pacific port; pine, at Colon, Atlantic port.

EXAMINATIONS.

ELECTRICAL ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 29, to secure eligibles from which to make certification to fill two or more vacancies in the position of Electrical Assistant in the Signal Service at Large, War Dept., at $1,080 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it shall be decided in the interests of the service to fill the vacancies by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1312. Applications must be filed prior to closing hour on Sept. 18.

LABORATORY ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 15, to secure eligibles from which to make certification to fill vacancies as they may occur in the positions of under Laboratory Inspector, under Biochemist, and under Bacteriologist (in accordance with the qualifications shown by the eligibles), in the Bureau of Animal Industry, Dept. of Agriculture, at salaries ranging from $1,000 to $1,200 a year. The opportunities for appointment are considered good. Competitors will not be assembled for any of the tests. Age limit, 18 to 25 years. Application form 304 and special form. Applications must be filed prior to closing hour on Sept. 15.

ASSISTANT IN DRY-LAND AGRICULTURE.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 15, to secure eligibles from which to make certification to fill three vacancies in the position of Assistant in dry-land agriculture, at salaries ranging from $900 to $1,200 a year, in the Bureau of Plant Industry, Dept. of Agriculture, and similar vacancies as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Men only will be admitted to this examination. Competitors will not be assembled for any of the tests. Age limit, 20 years. Application form 304 and special form. Applications must be filed prior to closing hour on Sept. 15.

ENGINEER OF TESTS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 29, to secure eligibles from which to make certification to fill a vacancy in the position of Engineer of Tests, Bureau of Engraving and Printing, $2,100 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. The duties of the position require a man of broad experience and expert knowledge in the chemical and physical examination of many classes of materials which include dry colors, oils, textiles, paper, various chemicals, glues, varnishes, etc. In addition to the routine duties of examining supplies to determine their relative merits and adaptability for the particular work for which they are required, he is expected to engage in research work with a view to improving the product of the Bureau of Engraving and Printing. Age limit, 30 years. Application form 1312. Applications must be filed prior to closing hour on Sept. 18.

INDUSTRIAL NOTES.

P. A. McCARTHY & SONS, consulting civil engineers, announce that they will remove their offices on or about Sept. 15 from Lufkin and El Paso, Tex., to Houston, Tex.

THE LUMBERMEN'S PORTLAND CEMENT CO., of Carlyle, Kansas, has placed their order with the Kent Mill Co., for 32 Maxecon pulverizers, with which to equip their grinding departments; both the raw side and the clinker side.

THE JEANESVILLE IRON WORKS CO., Hazleton, Pa., advises that their business is improving rapidly, a few of the recent orders being as follows: Ten 18-28 × 48 × 9½ × 36-in. triple expansion pumps; 1 15-24 × 40 × 15 × 24-in. triple expansion pumps; one 9-12½ × 16 × 26 × 9½ × 18-in. triple expansion pumps; two 9-14 × 24 × 8½ × 18-in. triple expansion pumps; also a number of horizontal and vertical power pumps and a large number of medium size mine pumps.

THE KENT MILL CO., New York, reports that the Universal Portland Cement Co. has purchased fourteen additional Maxecon pulverizers for its Pitsburg plant, which is to be increased to a 10,000-bbl. capacity. The Universal Co. now has in operation thirty Maxecon pulverizers in the Buffington, Ind., and Pittsburg plants. The Kent Mill Co. also reports that its foreign business is very good, having received several orders recently from European and English branches.

H. M. BYLLESBY & CO., on Aug. 1, vacated the fifth floor of the American Trust Bldg., Chicago, Ill., and opened temporary offices at the corner of Dearborn and Monroe Sts., in the rooms formerly occupied by the Commercial National Bank. The company will move again on Oct. 1 to the rooms at present occupied by the Continental National Bank, where it will remain until returning to the American Trust Bldg. on June 1, 1910. These removals are made for the purpose of accommodating the American Trust & Savings Bank and the Continental National Bank, which, due to their merging, require more space in the American Trust Bldg.

THE WHEELER CONDENSER & ENGINEERING CO. has recently introduced several important improvements in condensing apparatus, among which are the "dry tube surface condenser" which has shown remarkable results in high vacuum work. The company has also in hand new and improved types of rotative dry vacuum pumps, centrifugal pumps, centrifugal jet condensers and cooling towers. The plant at Carteret is being enlarged and improved. Among the improvements is a new power house which will be equipped with several different systems of condensers for exhibition purposes and will be used for supplying the electrical energy which will be used throughout the shop.

TRADE PUBLICATIONS.

ELASTIC IRON CEMENT.—Smooth-On Manufacturing Co., 572 Communipaw Ave., Jersey City, N. J. Catalog No. 7. Paper; 4¼ × 6½ ins.; pp. 95; illustrated.

This is an instruction book telling when, where and how to use "smooth-on" iron cements, sheet packings and corrugated steel gaskets.

RATCHET JACKS.—Buckeye Jack Manufacturing Co., Louisville, Ohio. Catalog F. Paper; 6 × 9 ins.; pp. 24; illustrated.

The illustrations of automobile jacks and track jacks in a variety of styles are accompanied by brief descriptive notes. Trip and automatic lowering jacks are shown with capacities up to 15 tons.

ROAD MACHINERY.—The Austin-Western Co., Chicago. Paper; 6¼ × 6 ins.; pp. 28; illustrated.

The machinery includes road grading machines, portable stone crushing and screening outfits, horse and gasolene road rollers, scrapers and plows. Street sprinkling, street sweeping and well-drilling machines are included.

TURBINE PUMPS.—Atlantic Hydraulic Machinery Co., 1022 Drexel Bldg., Philadelphia, Pa. Bulletins Nos. 1, 2 and 3. Paper; 8 × 10 ins.; pp. 2 each; illustrated.

These bulletins treat respectively of "standard," multi-stage and high-speed low-lift turbine pumps. They explain the particular uses and advantages of each type.

BRAZING CAST IRON.—Castolin Co. of America, 1609 Wright Bldg., St. Louis, Mo. Paper; 8½ × 11 ins.; pp. 8; illustrated.

This pamphlet contains photographs showing fractured castings brazed by means of a preparation known as "Castolin," which is manufactured in Sweden. Testimonial letters and descriptive extracts from English technical papers constitute the text of the book. It is claimed that by this method castings up to 5 cwt. can be brazed in an ordinary smith's forge or with a gas blow-pipe.

CORRUGATED METAL CULVERTS.—Canton Culvert Co., Canton, Ohio. Paper; 6 × 9 ins.; pp. 15; illustrated.

This booklet describes "Acme" corrugated galvanized metal culverts. These culverts are made in sections 26 ins. long which may be nested for shipment. The illustrations show culverts of diameters up to 60 ins.

TRACTION CONCRETE MIXERS.—Burrell Mfg. Co., Bradley, Ill. Paper; 6 × 9¾ ins.; pp. 8; illustrated.

The machine is a combined mixer and cart, with a horizontal drum driven from the carrying wheels. It is handled by a team of horses. The circular gives particulars of the labor, cost, and amount of work done per day.

GAS AND GASOLENE ENGINES.—Jacobson Machine Mfg. Co., Warren, Pa. Bulletin 27. Paper; 6 × 9¼ ins.; pp. 23; illustrated.

Four-stroke cycle engines are described, with both hit-and-miss and throttling governors. These engines are made in a number of stationary and portable models. A two-cylinder tandem type is built in sizes above 30 HP.

STEAM AND POWER PUMPS.—Du Bois Iron Works, Du Bois, Pa. Catalog No. 32. Paper; 6 × 9 ins.; pp. 31; illustrated.

In this catalog is described the construction and operation of Du Bois simplex steam pumps, belted pumps and gasoline-engine driven pumps. Tables of information are included concerning these pumps and the flow of water in pipes.

LOCOMOTIVE SUPERHEATERS.—Baldwin Locomotive Works, Philadelphia, Pa. Record No. 66. Paper; 9 × 6 ins.; pp. 31; illustrated.

The Baldwin smoke-box superheater and feed-water heater for locomotives is described and shown by sectional drawings. Articles on smoke-box superheaters and the advantages of superheated steam for locomotives are reproduced from the "Railway Age."

CONDENSERS.—A. S. Cameron Steam Pump Works, E. 23d St., New York City. Paper; 6 × 9 ins.; pp. 7; illustrated.

In this booklet are shown diagrammatic sectional elevations of centrifugal jet and barometric jet condenser installations, the operation of which is explained in the text. There is also a sectional view and description of a surface condenser mounted directly over a combined air and circulating pump.

SCRAPERS, GRADING PLOWS AND WHEELBARROWS.—The Sidney Steel Scraper Co., Sidney, O. Paper; 6¼ × 8 ins.; pp. 44; illustrated.

Drag and wheeled scrapers of ordinary and special devices are shown, the latter being largely for road and ditch work. Wooden and steel wheelbarrows of various patterns are listed, and include wheelbarrows with deep trays for conveying concrete and mortar.

VERTICAL BORING MILLS.—Gisholt Machine Co., Madison, Wis. Loose leaf. Paper; 7½ × 9½ ins.; pp. 2; illustrated.

This leaf contains an illustration and description of the micrometer index dials and automatic feed tripping device used on Gisholt vertical mills. By means of these attachments, the mills can be set to take any desired cut and will automatically stop cutting at the point for which they are set.

RECORDING INSTRUMENTS FOR BLAST FURNACES.—The Bristol Co., Waterbury, Conn. Bulletin No. 103. Paper; 8 × 10½ ins.; pp. 16; illustrated.

The illustrations show recording and indicating electric pyrometers, recording pressure gages, recording thermometers and electric time recorders. Specimen charts are also reproduced and the application of these instruments in blast-furnace practice is explained.

STANDARD GAGES.—Grönkvist Drill Chuck Co., 18 Morris St., Jersey City, N. J. Paper; 8¾ × 11 ins.; pp. 27; illustrated.

The Johansson (Swedish) combination standard gages are described in this catalog. A number of applications of these gages in machine shop practice are suggested by the illustrations and accompanying explanations. It is stated that these gages are accurate to within one millionth part of an inch per inch.

COAL AND ORE-HANDLING MACHINERY.—C. W. Hunt Co., West New Brighton, N. Y. Catalog 091. Paper; 6¼ × 9 ins.; pp. 88; illustrated.

In this bulletin are many pictures of installations of all sorts of coal and ore-handling machinery, such as huge hoisting and conveying plants, elevators, cable and automatic railways, bucket conveyors, cars, shovels and tubes, hoppers, scales, coal valves and chutes, blocks and sheaves, industrial railways, etc., etc. There are also general dimensions and details of small parts.

GASOLENE MARINE ENGINES.—Lackawanna Mfg. Co., Newburgh, N. Y. Paper; 4 × 6½ ins.; pp. 28; illustrated.

Two-stroke cycle engines of from one to four cylinders and 2½ to 30 HP. are pictured in this booklet, which contains also tables of the principal dimensions and prices of the several sizes shown. There are some illustrations showing interior construction, and a concise description of special features of the Lackawanna engines.

BOILER BLOW-OFF SYSTEM.—Horace L. Winslow Co., Old Colony Bldg., Chicago, Ill. Paper; 9 × 12 ins.; illustrated.

The Clark blow-off system, described in this booklet, is said to stop foaming, remove sludge and prevent scale. The device consists of a series of hollow bars with funnel shaped lateral openings. These bars are placed in the water leg, on the bottom of the boiler barrel and in a skimmer located near the head and above the flues.

COPPER GASKETS.—Chapman Engineering Co., 917 Land Title Bldg., Philadelphia, Pa. Catalog No. 9. Paper; 6 × 9 ins.; pp. 23; illustrated.

The "case-hardened" corrugated copper gaskets described are made in circular shapes for pipe flanges and in irregular shapes for special purposes. They are guaranteed to stand 500 lbs. steam pressure and the temperatures of superheated steam. Boiler gaskets of a composition metal are also shown.

VARIABLE SPEED TRANSMISSIONS.—Reeves Pulley Co., Columbus, Ind. "Engineers' Manual." Leather; 3½ × 6 ins.; pp. 59; illustrated.

The Reeves variable speed transmission is carefully described in this attractive booklet. Between every two pages of text is a blank page for memoranda. Tables of speeds and dimension diagrams for the various sizes of transmission are included, as well as price lists for complete transmissions and parts.

SMOKELESS FURNACES.—Bunsen Smokeless Furnace Co. of America, 50 Church Street, New York City. Advance catalog. Paper; 7 × 6½ ins.; illustrated.

This booklet presents an illustrated description of a "smokeless" furnace which may be installed under fire-tube or water-tube boilers. In this furnace, air from the ash pit is drawn up through passages in the bridge wall, in which it is pre-heated, and then discharged into the combustion chamber through openings in a hollow grill work between the bridge wall and the boiler. The amount of this auxiliary air supply is regulated by a damper in the ash pit.

WATER WEIGHER.—Willcox Engineering Co., Saginaw, Mich. Bulletins 9 and 10. Paper; 6 × 9 ins.; pp. 12 and 11; illustrated.

Here is an apparatus for automatically weighing and recording boiler feed-water taken from any source, such as feed-heater, tank, pump or hydrant. The only moving part is a bell-float and stand-pipe. The incoming water charge is balanced by air pressure against a measuring water column and at point of balance is siphoned away. Bulletin 9 describes the several forms developed. Bulletin 10 is a reprint of portions of an article by Mr. A. A. Cary, of New York City, in "Power" for Feb. 23.

TRACTION ENGINES, EXCAVATORS AND DUMP-SPREADING WAGONS. — The Avery Co., Peoria, Ill. Paper; circulars; illustrated.

The traction engines are peculiar in having the cylinders and gearing mounted on a steel frame under the boiler. These engines are shown fitted with cranes, with road-roller wheels, and with an excavator in which a scraper bucket is handled with lines from a boom. The dump wagons are arranged to dump rapidly or to spread the material at any desired depth. They may be handled in trains, hauled by traction engines. Special traction wagons for logs and lumber are shown also, and when hauled in trains they can take curves as sharp as 30 ft. radius.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 70.

LAYING WATER PIPE.

Town of Framingham, Mass., Board of Water Commissioners.

Sealed proposals will be received at the office of the Board until Monday, August 23, 1909, at 4 P. M., for laying about 18,500 ft. cast-iron water pipe. Further information, forms of proposals, contract and specifications may be obtained at the office of the Superintendent, 105 Waverly St., South Framingham. The printed forms must be used in making proposals. The Board reserves the right to reject

any or all bids or to accept such proposal as they may deem for the best interest of the Town. By order of the Board.

H. L. DAVENPORT,
Secretary.

ROAD REPAIR.

NOTICE TO CONTRACTORS.

State of New York, Office of the State Commission of Highways, Albany, N. Y. Pursuant to the provisions of Chapter 30, Laws of 1909, sealed proposals will be received by the undersigned at their office, No. 55 Lancaster St., Albany, N. Y., at one o'clock P. M. on Thursday, the 2d day of September, 1909, for the repair or resurfacing of the following highways:

Delaware County.

Repair Contract No.	Road No.	Name of Road.	Town.
46	36	Griffins Corners	Middletown
	217	Grand Gorge	Roxbury
		Chemung County.	
47	13	Southport, Sec. 1	Southport
	28	Southport, Sec. 2	Southport
	30	South B'dway	Southport

Plans and specifications may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineer, Paul McLoud, Binghamton, N. Y.

Proposals for each repair contract must be presented in a separate sealed envelope endorsed on the outside with the number of such repair contract. Each proposal must be accompanied by a New York draft or certified check, payable to the order of the State Commission of Highways for an amount equal to at least 5% of the amount of the proposal which such draft or check accompanies; which draft or check wil be held by the Commission until the contract and bond are duly executed.

The successful bidder will be required to give a bond for 50% of the amount of the contract, such bond to be executed by a Surety Company to be approved by the Commission; or a bond secured by the deposit of collateral securities to be approved by the Commission.

The right is reserved to reject any or all bids.

S. PERCY HOOKER,
Chairman;
T. WARREN ALLEN,
ROBERT EARL,
Commissioners.

WATER-WORKS.

Henryetta, Okla., Aug. 12, 1909.

Sealed bids will be received until 8 o'clock P. M., Thursday, September 9, 1909, by the Light and Water Commissioners of Henryetta, Oklahoma, for furnishing material and constructing waterworks in said city, as follows:

1. Approximately 700 tons Cast-Iron Pipe and Specials, 4 to 10 inches in diameter.
2. Approximately 102 Double Nozzle Fire-Hydrants.
3. Valves and Valve-Boxes for distribution system.
4. Labor and material for laying approximately nine miles of pipe.

Certified checks will be required as follows:

With each bid on Pipe and Specials, $1,000.00; with each bid on Hydrants or Valves, $100.00; and with each bid on Construction Work, $500.00.

The right is reserved to reject any and all bids. For detailed specifications and further information address W. R. Davis, Secretary Light and Water Commission, Henryetta, Oklahoma.

JOHN BASTABLE,
W. B. HUDSON,
W. R. DAVIS,
Light and Water Commission.
GRANBERY JACKSON, Engineer.
Mt. Pleasant, Tenn.

GRADING, ETC.—Office Constructing Quartermaster, Fort Totten, N. Y., August 11, 1909.—Sealed proposals, for about 2,644 cu. yds. excavation, 667 sq. yds. macadam roads, 5,000 sq. ft. concrete walk, and 665 ft. of drain at Fort Totten, N. Y., will be received here until 11 a. m., September 10, 1909. Plans, specifications, bidding blanks and full information obtained at this office. Deposit of $10 required to guarantee return of plans and specifications. Right reserved to reject any and all bids. Mark envelope containing proposals "Proposal for Grading, etc.," and address CONSTRUCTING QUARTERMASTER, Fort Totten, N. Y.

STREET IMPROVEMENT.

Westfield, N. J.

Sealed proposals for improving Prospect Street from Broad St. to Dudley Ave., will be received by the Council of the Town of Westfield, N. J., at the Town Rooms, 129 Elm St., Westfield, N. J., on Tuesday, Sept. 7, 1909, at 8.15 o'clock P. M.

The Engineer's approximate estimate of the amount of work to be performed is as follows:

6,600 sq. yds. of six (6) inch macadam.
2,580 lin. ft. of vitrified brick gutters on concrete base.
4,000 lin. ft. of bluestone curb.
1,000 lin. ft. of curb reset.
72 lin. ft. of radius curb.
115 lin. ft. of culverts.

Each proposal must be accompanied by a certified check for $400.00, payable to the Treasurer of the Town of Westfield, signed by the bidder and without endorsement or any kind, as an evidence of good faith, and the successful bidder will be required to furnish a bond of $4,000.00, with sureties acceptable to the Council to guarantee the faithful performance of the contract.

Forms of proposal, specification and contract may be obtained at the office of A. W. Vars, Town Surveyor, 129 Elm St., Westfield, N. J.

The Council reserves the right to reject any or all bids.

LLOYD THOMPSON,
Town Clerk.

August 16, 1909.

RIFLE RANGE.

Albany, N. Y.

Sealed proposals, endorsed on the envelope "State Rifle Range Construction," and addressed to the undersigned will be received at the office of the Armory Commission in the Capitol at Albany, N. Y., up to 12 o'clock noon on Tuesday, August 31, 1909, when bids will be opened and read publicly for the construction of one 430 foot concrete target shelter and one 240 foot concrete target shelter, approximately, and the equipment thereof, together with grading, excavating and drainage therefor at the State Rifle Range, Blauvelt, Rockland County, N. Y.

Plans and specifications may be consulted and blank form of proposal secured at the office of the State Board of Armory Commissioners in the Capitol at Albany, N. Y., or at the office of Irving Hopper, Attorney, Nyack, N. Y.

All bids must be based on a thorough examination of the premises, and intending bidders are requested to visit the premises and note existing conditions.

Contracts will be awarded to the lowest responsible bidder, providing the bids do not exceed the amount of funds available therefor.

The Armory Commission reserves the right to reject any or all bids. Informal bids will not be considered.

State Board of Armory Commissioners,
F. A. McNEELY, Secretary.

RESERVOIR ADDITION.

Monticello, Iowa.

Sealed bids will be received by the City of Monticello, Iowa, up to 8 P. M. o'clock, Aug. 30th, 1909, at the City Hall in said City, for furnishing materials and constructing an addition to the present Water Works Reservoir, said addition consisting of reinforced concrete, and being thirty-five feet high and fifty-three feet in diameter.

Plans and specifications may be examined at the City Hall at Monticello, Iowa, or at Room 651, First National Bank Bldg., Chicago.

J. A. VOORHEES, Mayor.
A. KEMPF, City Clerk.
WILLIAM H. KIMBALL, Engineer,
Chicago.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., August 10, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 20th day of September, 1909, and then opened, for the reconstruction of the U. S. Post Office, Court House and Custom House at Richmond, Virginia, in accordance with the drawings and specification, copies of which may be obtained from the Custodian at Richmond, Va., or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

PAVING.

Hornell, N. Y., Aug. 17, 1909.

Sealed proposals will be received by the Board of Public Works at the office of the City Clerk of Hornell, N. Y., until 3 P. M., Tuesday, August 31st, 1909, for grading, curbing and paving with vitrified brick or block on concrete foundation Center St. and portions of Hornell and Canisteo Sts.

Approximate quantities are:

Excavation, Hornell Street..	888 cu. yds.
Paving Hornell Street.......	2,380 sq. yds.
Curbing Hornell Street......	1,689 lin. ft.
Excavation, Center Street...	1,583 cu. yds.
Paving Center Street.......	4,547 sq. yds.
Curbing Center Street......	2,578 lin. ft.
Excavation Canisteo Street..	1,475 cu. yds.
Paving Canisteo Street.....	3,086 sq. yds.
Curbing Canisteo Street.....	1,868 lin. ft.

A certified check for Two Hundred ($200) Dollars for each street must accompany each bid.

Plans and specifications may be seen at the office of the Board of Public Works, where proposal sheets may be obtained by bidders.

A. F. BANNON, JR.,
Supt. Public Works.

RETAINING WALL.

Hornell, N. Y., Aug. 17, 1909.

Sealed proposals will be received by the Board of Public Works at the office of the City Clerk of Hornell, N. Y., until 3 P. M., Tuesday, August 31st, 1909, for constructing a concrete retaining wall on Canacadea Creek.

A certified check for Two Hundred ($200) Dollars must accompany each bid.

Plans and specifications may be seen at the office of the Board of Public Works, where proposal sheets may be obtained by bidders.

Approximate quantities are:

Excavation	284 cu. yds.
Concrete	622 cu. yds.

A. F. BANNON, JR.,
Supt. Public Works.

DRAINAGE WORK.

Champaign, Ill.

Bids are asked until 10.00 o'clock A. M., Aug. 28th, 1909, at Ray and Dobbin's office, Champaign, Ill., for the cleaning, deepening and improving of the Main Ditch and branch ditches of The Beaver Lake Drainage Dist., Champaign Co., Ill., a total distance of 35¾ miles and requiring the excavating of 454.745 cu. yds. of dirt. Also the furnishing, hauling and laying 108,235 ft. of farm drain tile size from 30 ins. to 7 ins. in diameter.

W. J. DAY, Engineer.
Bement, Ill.

DEPARTMENT OF THE INTERIOR, Washington, D. C., August, 12, 1909.—Sealed proposals, in duplicate, will be received at the Department until 2 o'clock p. m., Wednesday, September 15, 1909, for the construction of a Science Hall at the Howard University, Washington, D. C., in accordance with drawings and specifications, copies of which with form of proposal may be had on application at the Department on or after August 31, 1909. The right is reserved to reject any or all bids, waive technical defects, to accept one part and reject the other as the interests of the Government may require. Proposals should be securely enveloped, marked "Proposals for Science Hall" and be addressed to the Secretary of the Interior, Washington, D. C. JESSE E. WILSON, Acting Secretary.

OFFICE, COMMISSIONERS, DISTRICT OF COLUMBIA, Washington, Aug. 17, 1909.—Sealed proposals will be received at this office until 12 o'clock noon, Saturday, Aug. 28, 1909, for laying about 10,000 square yards of cement sidewalks in the District of Columbia. Forms of proposals, specifications and necessary information may be obtained from Chief Clerk, Engineer Department, Room 427, District Building. HENRY L. WEST, WILLIAM KELLY (Acting), Commissioners, D. C.

U. S. ENGINEER OFFICE, Newport, R. I., Aug. 16, 1909.—Sealed proposals for repairing breakwater of Harbor of Refuge at Point Judith, R. I., will be received here until 11 a. m., Sept. 15, 1909, and then publicly opened. Information furnished on application. J. C. SANFORD, Lt.-Col., Engrs.

CONSTRUCTION AND DELIVERY OF STEEL BARGES.—U. S. Engineer Office, Vicksburg, Miss., August 16, 1909.—Sealed proposals for constructing and delivering steel barges will be received here until noon, October 6, 1909, and then publicly opened. Information on application. CLARKE S. SMITH, Capt., Engrs.

U. S. ENGINEER OFFICE, Room 802, Army Building, 39 Whitehall Street, New York City, August 14, 1909.—Sealed proposals for dredging in Raritan Bay, N. J., will be received at this office until 12 M., September 14, 1909, and then publicly opened. Information furnished on application. D. W. LOCKWOOD, Colonel, Engineers.

U. S. ENGINEER OFFICE, Galveston, Tex., August 16, 1909.—Sealed proposals, in duplicate, for furnishing and delivering Creosoted Material and Lumber for Improving Galveston Ship Channel and Buffalo Bayou, Tex., will be received here until 12 M., September 15, 1909, and then publicly opened. Information furnished on application. JOHN C. OAKES, Capt., Engrs.

Situations Wanted

Surveyors.

EXPERIENCED Instrumentman, Draftsman and Computer desires position; salary moderate. Address "X. A. 8," Engineernig News, New York. 8-5t

TRANSITMAN, Rodman (23), I. C. S. student, 3 years' experience location, construction; thorough knowledge foundation construction; good draftsman. Address "A. B. 8," Engineering News, New York. 8-1t

Draftsmen.

YOUNG MAN with 4 years of structural and derrick experience desires permanent position as draftsman. Address "Z. A. 8," Engineering News, N. Y. 8-2t

Superintendents, Misc., etc.

FOREMAN on general contract work, good all around man, any kind of work; will go out of town; reference. HOPKINS, 564 7th Ave., New York. 8-1t

WATER SUPPLY ENGINEER (33), University graduate, having responsible charge of design, construction and maintenance, sewerage, sewage disposal, filtration and water supply, desires position on water-supply system or construction. Reference present employers. Address "B. B. 8," Engineering News, New York. 8-12t

Situations Open

WANTED—Draftsmen having experience in detailing ornamental iron work; state experience and salary expected. GLEN MFG. CO., Ellwood City, Pa. 8-2t

WANTED—At once, superintendent for crushing plant. Address, giving references and salary expected, MACDONALD CONSTRUCTION CO., 146 Broadway, New York City. 8-1t

WANTED—Experienced asphalt foreman; year's contract and good salary to right man. Address MacDONALD CONSTRUCTION CO., 146 Broadway, New York City. 8-1t

WANTED—Several experienced mechanical draftsmen on general work. Technical graduates preferred. State experience, salary and earliest date available. Address "C. B. 8," Engineering News, New York. 8-2t

WANTED—Competent checkers and detailers on building work. Excellent opportunity for good men to obtain experience in other types of structures. Address "S. A. 8," Engineering News, New York. 8-1t

Miscellaneous Wants

WANTED
AT ONCE

One 150-KW., 250-volt, direct current belted generator.
One 60-KW., 250-volt, direct current belted generator.
One 50-HP., 250-volt, direct current motor.
Two 25-HP., 250-volt, direct current motors.
Two 50-HP., 2-phase, 220-volt motors.
Two 25-HP., 2-phase, 220-volt motors.
One 14" Corliss engine.
Two 100-HP. tubular boilers.
One 75-KW., direct connected, 250-volt unit.
State full description, speed and price.

HARRY P. BREARLEY

12 Gates Avenue, Brooklyn, N. Y.

8-1t